

**October 25, 2006, 3:00 PM - 4:30 PM  
TBPOC Conference Call**

<b>Topic</b>	<b>Presenter</b>	<b>Time</b>	<b>Recommended Action</b>
<b>1. CHAIR'S REPORT</b>	W. Kempton, CT	5 min	Information
<b>2. CONSENT CALENDAR</b> a) September 29 Meeting Minutes	A. Fremier, BATA	2 min	Approval
<b>3. MONTHLY PROGRESS REPORT</b> a) Draft October 2006 Monthly Progress Report	A. Fremier, BATA	2 min	Information
<b>4. QUARTERLY REPORT</b> a) Draft 3 <sup>rd</sup> Quarter Report Ending September 30, 2006 b) Executive Summary Budget and Forecast Revisions	T. Anziano, CT	2 min	Information
	T. Anziano, CT	5 min	Approval
<b>5. OAKLAND TOUCHDOWN (OTD)</b> a) Submarine Cable Contract	T. Anziano, CT	10 min	Information
<b>6. OTHER BUSINESS</b> a) Face-to-Face between TBPOC and PMT	W. Kempton, CT	10 min	Information
<b>Next Meeting: The November 16, 2006 meeting in process of being re-scheduled.</b>			

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### **TBPOC CONFERENCE CALL October 25, 2006**

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2	2	<b>CONSENT CALENDAR</b> a) September 29, 2006 Meeting Minutes*
3	3	<b>MONTHLY PROGRESS REPORT</b> a) Draft October 2006 Monthly Progress Report*
4	4	<b>QUARTERLY REPORT</b> a) Draft 3 <sup>rd</sup> Quarter Report Ending September 30, 2006 b) Executive Summary Budget and Forecast Revisions*
5	5	<b>OAKLAND TOUCHDOWN (OTD)</b> a) Submarine Cable Contract
6	6	<b>OTHER BUSINESS</b> (No attachments) a) Face-to-Face between TBPOC and PMT

\* Attachments

\*\* Final Documents still in process; to be provided at the meeting.

\*\*\* Stand alone document included in the binder.

## **Item 1: Chair's Report**

**No Attachments**

## *Memorandum*

**TO:** Toll Bridge Program Oversight Committee (TBPOC)      **DATE:** October 23, 2006

**FR:** Andrew Fremier, BATA Deputy Executive Director

**RE:** Agenda No. - 2a  
Consent Calendar  
Item- September 29, 2006 Meeting Minutes

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**Cost:**

N/A

**Schedule Impacts:**

N/A

**Recommendation:**

Approval

**Discussion:**

The Program Management Team has reviewed and requests approval of the September 29, 2006 Meeting Minutes.

**Attachment:**

September 29, 2006 Meeting Minutes



# TOLL BRIDGE PROGRAM OVERSIGHT COMMITTEE

CALTRANS BAY AREA TOLL AUTHORITY CALIFORNIA TRANSPORTATION COMMISSION

## MEETING MINUTES

September 29 2006, 1:30 PM – 3:30 PM  
The Claremont Conference Room, MTC Office  
101 8<sup>th</sup> St, Oakland, CA

**Attendees:** TBPOC Members: Will Kempton, Steve Heminger, and John Barna;  
PMT Members: Tony Anziano, Andy Fremier; Participants: Ali Banani, Andre Boutros, Beatriz Lacson, Peter Lee, Brian Maroney, Judis Santos, Bijan Sartipi, Sue Woo

Convened: 1:36 PM

Items		Action
<b>1. CHAIR'S REPORT</b> The Chair convened the meeting at 1:36 PM, and deferred approval items until Executive Director John Barna joined the Committee at 1:50 PM. <ul style="list-style-type: none"><li>• The Chair conveyed his appreciation and compliments:<ul style="list-style-type: none"><li>○ to MTC/BATA for the Bay Bridge closure resolution; and</li><li>○ to Staff for the adept management of the silica issue.</li></ul></li><li>• The Chair expressed the need to educate the public on Proposition 1B, the \$20 billion transportation bond proposal that will be on the November 7 ballot.</li></ul>		
<b>2. CONSENT CALENDAR</b> a) August 24, 2006 Meeting Minutes <ul style="list-style-type: none"><li>• BATA presented the August 24, 2006 Meeting Minutes for approval.</li></ul> b) TBPOC Calendar 2007 <ul style="list-style-type: none"><li>• BATA presented the 2007 TBPOC meeting calendar for approval.</li></ul>		<ul style="list-style-type: none"><li>• The TBPOC <b>APPROVED</b> the August 24, 2006 Meeting Minutes.</li><li>• The TBPOC <b>APPROVED</b> the TBPOC Meeting Calendar 2007, with the following request:</li></ul>

(continued)

Items	Action
	<ul style="list-style-type: none"> <li>○ Avoid Friday afternoon meetings in the Bay Area; and</li> <li>○ Be as flexible as possible so as to accommodate unpredictable changes in the members' schedules.</li> </ul>
<p><b>3. MONTHLY PROGRESS REPORT</b></p> <p>a) BATA presented the draft September 2006 Monthly Progress Report for information.</p> <ul style="list-style-type: none"> <li>• Updated financial information is expected to be incorporated by this evening; TBPOC approval through their respective PMT members is anticipated early next week after appropriate reviews and final comments are incorporated.</li> <li>• It was noted that the Highlights on page 6 state that work on the Stormwater Treatment Measures has been delayed but the Schedule Summary on page 9 shows it to be 9 months ahead of schedule.             <ul style="list-style-type: none"> <li>○ It was explained that in spite of the delay, the work is still ahead of schedule.</li> </ul> </li> <li>• Regarding the Quarterly Report, it was mentioned that:             <ul style="list-style-type: none"> <li>○ the quality of the reports has improved;</li> <li>○ approval was achieved ahead of distribution date for the first time;</li> <li>○ internal Administration approval process is in place for quick responses.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• BATA reported that the TBPOC <b>APPROVED</b> the August 2006 Monthly Progress Report through their respective PMT representatives on August 31<sup>st</sup>.</li> <li>• Indicate in the Highlights that the Stormwater Treatment Measures work has been delayed but is still 9 months ahead of schedule.</li> </ul>
<p><b>4. PROGRAM ISSUES</b></p> <p>a) The Capital Outlay Support Overview was not presented.</p> <ul style="list-style-type: none"> <li>• When queried, the Department indicated that while there are pressures put on the COS, it is not running out of funds, e.g., cost</li> </ul>	<ul style="list-style-type: none"> <li>• The TBPOC agreed to defer the presentation to next month's meeting.             <ul style="list-style-type: none"> <li>○ Adjust figures to reflect a 9.5% average increase for engineering</li> </ul> </li> </ul>

(continued)

Items	Action
<p>increases anticipated in some areas can be offset by some projects coming in early.</p>	<p>resources vs. the 7% increase shown;</p> <ul style="list-style-type: none"> <li>○ Instead of an annual look, think of ways to manage a three-year COS budget;</li> <li>○ Focus on managing the COS down.</li> </ul>
<p><b>5. SAN FRANCISCO-OAKLAND BAY BRIDGE UPDATES</b></p> <ul style="list-style-type: none"> <li>• The TBPOC accepted, without discussion, the updates presented in the meeting materials binder for items 5a) West Approach, 5c) E2/T1 Foundations, 5d) SAS Superstructure, 5e) Skyway, and 6) New Benicia-Martinez Bridge.</li> <li>• The Department announced that a new project status summary format will be introduced in October.</li> </ul>	
<p><b>West Approach</b>  <b>5a.1)</b> The Department presented for approval CCO No. 150, to cover the expedited demolition of Frames 7U(S) and 8U(S) over the recent three-day Labor Day weekend.</p>	<ul style="list-style-type: none"> <li>• The TBPOC <b>APPROVED</b> CCO No. 150 for \$4,466,138.78.</li> </ul>
<p><b>Yerba Buena Island</b>  <b>5b.1 /5b.2)</b> The Department gave a combined update on the YBI Transition Structure and South/South Detour contracts which are inter-related.</p> <ul style="list-style-type: none"> <li>• YBITS design development is now integrated with development of SSD design and work.</li> <li>• Schedules for both contracts are being monitored to accommodate concurrent delivery with an accelerated SAS.</li> <li>• Significant progress is being made and staff is in place.</li> <li>• Given the three- to four-year</li> </ul>	<ul style="list-style-type: none"> <li>• The PMT to put together a recommendation on how to</li> </ul>

(continued)

Items	Action
<p>exposure to hook-up of the Skyway to Yerba Buena, discussion arose as to whether an emergency plan could be put in place to allow the bridge to remain open if an earthquake occurs in the interim; have some fallback position within three or four months of the disaster, i.e., allow a temporary facility (new detour) to be in operation until the bridge is functioning.</p> <ul style="list-style-type: none"><li>○ The Department pointed out that such a plan would require consulting services which would result in a general conceptual feasibility study.</li><li>○ With focus on YBI, the Department indicated that alternative ways are already being explored by advancing high-risk tasks.</li></ul>	<p>address the TBPOC's request for an emergency plan. It was mutually agreed to not divert existing resources into this assignment.</p>
<p><b>Oakland Touchdown (OTD)</b> <b>5f.)</b> The Department gave an update.</p> <ul style="list-style-type: none"><li>• This work is organized into three contracts:<ul style="list-style-type: none"><li>○ OTD No. 1 – construction of marine foundations work and westbound approach work;</li><li>○ OTD No. 2 – construction of remaining eastbound approach when westbound traffic is shifted onto the new SAS ; and</li><li>○ Submarine Cable – replacement of existing submarine electrical cable from Oakland to Treasure Island.</li></ul></li><li>• The update was focused on the Submarine Cable contract.<ul style="list-style-type: none"><li>○ Bids were opened on September 19 with only a single bid received for</li></ul></li></ul>	



(continued)

Items	Action
<p>\$13,063,777 from California Engineering Contractors, Inc. The Engineer's Estimate was \$6,624,440.</p> <ul style="list-style-type: none"> <li>○ It was noted that BATA has a \$9.6 million allocation for this contract.</li> <li>○ The high ticket item of this bid is the cable itself for \$3.3 million; there was a 60% spike in the cost of copper (cable composition) five months ago.</li> <li>○ A discussion arose regarding: <ul style="list-style-type: none"> <li>➤ Option A: Award now for the two cables - (Alt. 1) the dollar gap needs to be filled by the City of San Francisco with deadline to provide funds in one week, or (Alt. 2) re-scope with supplemental allocation from BATA subject to issuance of a CCO for the elimination of one cable;</li> <li>➤ Option B: Utilize more generic cable specifications; re-bid as a separate contract to start ahead of OTD No. 1; accelerate bid and award process.</li> </ul> </li> </ul> <p><b>5f.1)</b> The Department requested approval of the Plans, Specifications and Estimate (PS&amp;E) for the OTD No. 1 contract.</p>	<ul style="list-style-type: none"> <li>• Convene a bid hearing to determine if the bid is responsive.</li> <li>• At the same time, investigate whether the City of San Francisco will come up with additional allocation, and pending outcome of bid hearing; if yes, award contract; if not, re-bid contract with one cable (per agreement), repackage and re-bid using a more generic cable specification.</li> <li>• Assess schedule flexibility/constraints and potential cost impacts to the program as a result of the cable contract delay of award or re-bidding process. <ul style="list-style-type: none"> <li>○ Depending on the outcome of the bid hearing, funding discussions, or program schedule and cost analysis, a TBPOC conference call will be necessary to approve the next steps.</li> </ul> </li> <li>• The TBPOC <b>APPROVED</b> the PS&amp;E for the OTD No. 1 contract for \$226.5 million with</li> </ul>

**(continued)**

Items	Action
<ul style="list-style-type: none"><li>• Estimate by the Department is \$226.5 million; BATA has performed a cursory check and found the Department's estimate to be reasonable.</li><li>• What can be done to encourage competition was discussed:<ul style="list-style-type: none"><li>○ use any kind of outreach that will help;</li><li>○ build in incentives that will promote interest in bidding.</li><li>○ many contractors should be interested in this work as it is a relatively conventional construction package.</li></ul></li><li>• If the Submarine Cable contract is delayed, it is likely that a work-around for the OTD conflicts will be issued through an addendum</li></ul>	<p>the following caveat:</p> <ul style="list-style-type: none"><li>○ If there is a need for an addendum due to impact from the Submarine Cable contract, present to the TBPOC again.</li></ul>
<p><b>6. NEW BENICIA-MARTINEZ BRIDGE</b></p> <p>a) BATA requested approval to negotiate a contract change order (CCO) in an amount not to exceed \$4.25 million to cover the Open Road Tolling (ORT) work and other miscellaneous work required to open the Benicia-Martinez Bridge to traffic.</p>	<ul style="list-style-type: none"><li>• The TBPOC <b>APPROVED</b> proceeding with negotiation of a CCO in an amount not to exceed \$4.25 million.</li></ul>
<p><b>7. Other Business</b></p> <ul style="list-style-type: none"><li>• The next TBPOC meeting is scheduled for October 25th in Sacramento.</li></ul>	

Adjourned: 3:04 PM

***(continued)***

**MEETING MINUTES**

September 29, 2006, 1:30 PM – 3:30 PM  
The Claremont Conference Room, MTC Office  
101 8<sup>th</sup> St, Oakland, CA

**APPROVED BY:**

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**WILL KEMPTON**, Director  
California Department of Transportation

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Date

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**JOHN F. BARNA, Jr.**, Executive Director  
California Transportation Commission

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Date

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**STEVE HEMINGER**, Executive Director  
Bay Area Toll Authority

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Date

## *Memorandum*

**TO:** Toll Bridge Program Oversight Committee (TBPOC)      **DATE:** October 23, 2006

**FR:** Andrew Fremier, BATA Deputy Executive Director

**RE:** Agenda No. - 3a  
Monthly Progress Report  
Item- Draft October 2006 Monthly Progress Report

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**Cost:**

N/A

**Schedule Impacts:**

N/A

**Recommendation:**

For Information Only

**Discussion:**

BATA will state, for the record, that the TBPOC approved the September 2006 Monthly Progress Report through their respective PMT members on October 3, 2006.

TBPOC approval of the October 2006 Monthly Progress Report through their respective PMT representatives is anticipated as soon as updated expenditure data become available.

**Attachment:**

Draft October 2006 Monthly Progress Report



# Toll Bridge Seismic Retrofit and Regional Measure 1 Programs

## Monthly Progress Report October 2006

**DRAFT**



**TOLL BRIDGE PROGRAM  
OVERSIGHT COMMITTEE**

CALTRANS · BAY AREA TOLL AUTHORITY · CALIFORNIA TRANSPORTATION COMMISSION

**Released: November 2006**



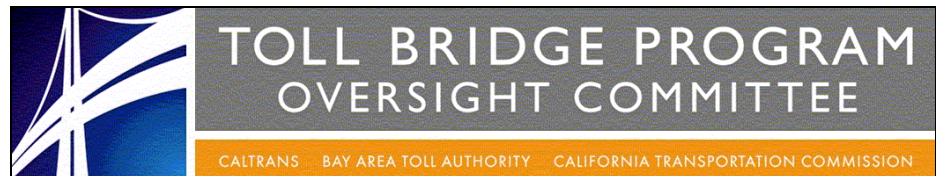




# Toll Bridge Seismic Retrofit and Regional Measure 1 Programs

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Monthly Progress Report  
October 2006



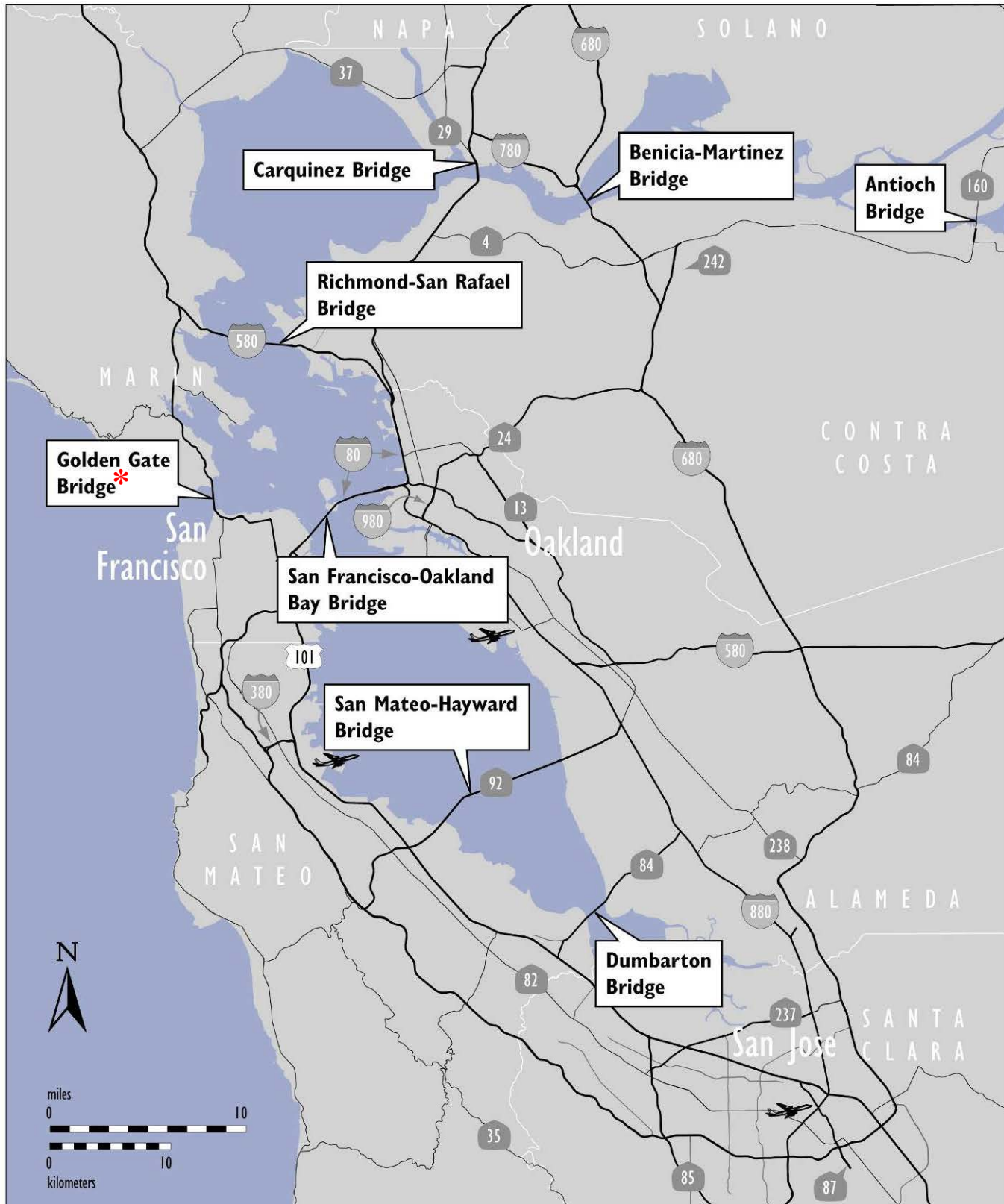




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## Toll Bridges of the San Francisco Bay Area



\* Under the Jurisdiction of the Golden Gate Bridge, Highway and Transportation District

## INTRODUCTION

In July 2005, Assembly Bill 144, Hancock (AB 144) created the Toll Bridge Project Oversight Committee (TBPOC) to implement a project oversight and project control process for the Benicia-Martinez Bridge project and the state toll bridge seismic retrofit program projects. Comprised of the Caltrans Director, the Bay Area Toll Authority (BATA) Executive Director and the Executive Director of the California Transportation Commission (CTC), the TBPOC's project oversight and control processes include but are not limited to reviewing bid specifications and documents, providing field staff to review ongoing costs, reviewing and approving significant change orders and claims in excess of \$1 million (as defined by the committee) and preparing project reports.

AB 144 identified the Toll Bridge Seismic Retrofit Program and the new Benicia-Martinez Bridge Project as under the direct oversight of the TBPOC. The Toll Bridge Seismic Retrofit Program includes:

Toll Bridge Seismic Retrofit Projects	Seismic Safety Status
San Francisco-Oakland Bay Bridge East Span Replacement	Construction
San Francisco-Oakland Bay Bridge West Approach Replacement	Construction
San Francisco-Oakland Bay Bridge West Span Seismic Retrofit	Complete
San Mateo-Hayward Bridge Seismic Retrofit	Complete
Richmond-San Rafael Bridge Seismic Retrofit	Complete
Eastbound Carquinez Bridge Seismic Retrofit	Complete
Benicia-Martinez Bridge Seismic Retrofit	Complete
San Diego-Coronado Bridge Seismic Retrofit	Complete
Vincent Thomas Bridge Seismic Retrofit	Complete

The new Benicia-Martinez Bridge is part of a larger program of toll-funded projects, called the Regional Measure 1 (RM1) Toll Bridge Program, under the responsibility of the BATA. While the rest of the projects in the RM1 program are not directly under the responsibility of the TBPOC, BATA and Caltrans (CT) will continue to report on their progress as an informational item. The RM1 program includes:

RM1 Projects	Open to Traffic Status
New Benicia-Martinez Bridge	Construction
1927 Carquinez Bridge Demolition	Construction
Richmond-San Rafael Bridge Deck Overlay Rehabilitation	Construction
Interstate 880/State Route 92 Interchange Reconstruction	Design
Richmond-San Rafael Bridge Trestle, Fender & Deck Joint Rehabilitation	Open
Westbound Carquinez Bridge Replacement	Open
San Mateo-Hayward Bridge Widening	Open
State Route 84 Bayfront Expressway Widening	Open
Richmond Parkway	Open

This report focuses on identifying critical project issues and monitoring project cost and schedule performance for the projects as measured against approved budgets and schedule milestones. This report is intended to fulfill Caltrans' requirement to provide monthly project progress reporting to the TBPOC under Section 30952.05 of the Streets and Highway Code.

## EXECUTIVE SUMMARY

## Toll Bridge Seismic Retrofit Program—Cost (\$Millions)

Project	Work Status	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast*	At-Completion Variance	Cost Status
a	b	c	d	e = c + d	f	g	h = g - e	i
<b>SFOBB East Span Replacement Project</b>								
Capital Outlay Support		959.4	-	959.4	445.9	977.1	17.7	●
Capital Outlay Construction								
Skyway	Construction	1,293.0	-	1,293.0	1,053.9	1,293.0	-	●
SAS E2/T1 Foundations	Construction	313.5	-	313.5	160.5	313.5	-	●
SAS Superstructure	Construction	1,753.7	-	1,753.7	138.2	1,767.4	13.7	●
YBI Transition Structures	Design	299.3	-	299.3	-	318.5	19.2	●
Oakland Touchdown (OTD)		283.8	-	283.8	-	302.1	18.3	
* OTD Submarine Cable	Advertise				-	9.6	-	●
* OTD No. 1 (Westbound)	Design				-	226.1	-	●
* OTD No. 2 (Eastbound)	Design				-	62.0	-	●
* OTD Electrical Systems	Design				-	4.4	-	●
YBI South/South Detour	Design/Const	131.9	-	131.9	34.5	169.1	37.2	●
Existing Bridge Demolition	Design	239.2	-	239.2	-	222.0	(17.2)	●
Stormwater Treatment Measures	Construction	15.0	-	15.0	2.7	15.0	-	●
East Span Completed Projects		90.3	-	90.3	89.2	90.3	-	
Right-of-Way and Environmental Mitigation		72.4	-	72.4	38.8	72.4	-	●
Other Budgeted Capital		35.1	-	35.1	1.5	11.0	(24.1)	
<b>Total SFOBB East Span Replacement Project</b>		<b>5,486.6</b>	-	<b>5,486.6</b>	<b>1,965.2</b>	<b>5,551.4</b>	<b>64.8</b>	
<b>SFOBB West Approach Replacement</b>	Construction							●
Capital Outlay Support		120.0	-	120.0	81.9	120.0	-	
Capital Outlay Construction		309.0	-	309.0	203.0	309.0	-	
<b>Total SFOBB West Approach Replacement</b>		<b>429.0</b>	-	<b>429.0</b>	<b>284.9</b>	<b>429.0</b>	-	
<b>Richmond-San Rafael Bridge Retrofit</b>	Construction							●
Capital Outlay Support		134.0	-	134.0	125.5	127.0	(7.0)	
Capital Outlay Construction		780.0	-	780.0	663.8	698.0	(82.0)	
<b>Total Richmond-San Rafael Bridge Retrofit</b>		<b>914.0</b>	-	<b>914.0</b>	<b>789.3</b>	<b>825.0</b>	<b>(89.0)</b>	
<b>Program Completed Projects</b>	Complete							
Capital Outlay Support		219.8	-	219.8	219.4	219.8	-	
Capital Outlay Construction		705.6	-	705.6	698.0	705.6	-	
<b>Total Program Completed Projects</b>		<b>925.4</b>	-	<b>925.4</b>	<b>917.4</b>	<b>925.4</b>	-	
<b>Miscellaneous Program Costs</b>		30.0	-	30.0	24.8	30.0	-	
<b>Program Contingency</b>		900.0	-	900.0	-	924.2	24.2	
<b>Total Toll Bridge Seismic Retrofit Program</b>		<b>8,685.0</b>	-	<b>8,685.0</b>	<b>3,981.6</b>	<b>8,685.0</b>	-	

- Within Approved Current Schedule and Budget
- Potential Cost and Schedule Impacts: Possible future need for Program Contingency Allocation
- Known Cost and Schedule Impacts: Request for Program Contingency Allocation forthcoming

Note: Details may not sum to totals due to rounding effects.

\* Cost forecasts are as of August 31, 2006. Forecasts for the Monthly Reports are generally updated on a quarterly basis in conjunction with Risk Analysis assessments for the TBSRP Projects and the TBSRP Quarterly Reports.

## Toll Bridge Seismic Retrofit Program—Schedule

Project	AB 144 / SB 66 Project Complete Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Project Complete Schedule Forecast (08/2006)	Schedule Variance (Months)	Schedule Status	Remarks
a	b	c	d = b + c	e	f = e - d	g	h
SFOBB East Span Replacement Project Skyway	Apr 07	8	Dec 07	Dec 07	-	●	A schedule extension due to hinge pipe beam fabrication, service platforms electrical appurtenances, polyester concrete, etc., has been approved by the TBPOC. See page 11.
SAS E2/T1 Foundations	Jun 08	(3)	Mar 08	Mar 08	-	●	
SAS Superstructure	Mar 12	12	Mar 13	Mar 13	-	●	Contract executed on May 3, 2006. See Note.
YBI Transition Structures	Nov 13	12	Nov 14	Nov 14	-	●	In March 2006, the TBPOC approved the split of the YBI contract into three contracts. Schedules and estimates for the split contracts are being developed
Oakland Touchdown (OTD)	Nov 13	12	Nov 14	Nov 14	-	●	
• OTD Submarine Cable	n/a		Jul 07	Oct 07	3	●	Bids opened on September 19, 2006. See page 22.
• OTD Westbound	n/a		Jul 09	Oct 09	3	●	Advertise date postponed to provide additional time for utility coordination and contract formation.
• OTD Eastbound	n/a		Nov 14	Nov 14	-	●	See Note.
YBI South/South Detour	Jul 07	-	Jul 07	TBD	TBD	●	Schedule is being assessed. Forecast completion date is TBD. See page 19.
Existing Bridge Demolition	Sep 14	12	Sep 15	Sep 15	-	●	See Note.
Stormwater Treatment Measures	Mar 08	-	Mar 08	Jun 07	(9)	●	Forecast based on actual award date and duration in contractor's A+B bid.
Open to Traffic Date: Westbound	Sep 11	12	Sep 12	Sep 12	-	●	See Note.
Open to Traffic Date: Eastbound	Sep 12	12	Sep 13	Sep 13	-	●	See Note.
SFOBB West Approach Replacement	Aug 09	-	Aug 09	Aug 09	-	●	
Richmond-San Rafael Bridge							
• Seismic Retrofit	Aug 05	-	Aug 05	Oct 05	2	●	Seismic retrofit completed July 29, 2005. Formal acceptance of contract October 28, 2005.
• Public Access Project	n/a	-	May 07	May 07	-	●	Bids to be opened November 1, 2006.

Note: Schedules for selected projects and the Open to Traffic dates were extended by 12 months from the AB144/SB66 baseline schedule due to Addenda #5 and #7 on the SAS Superstructure contract.

## Regional Measure 1 Program—Cost (\$Millions)

Project	Work Status	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast*	At- Completion Variance	Cost Status
a	b	c	d	e = c + d	f	g	h = g - e	i
<b>New Benicia-Martinez Bridge Project</b>	Construction							●
Capital Outlay Support		157.1	24.8	181.8	155.5	181.8	-	
Capital Outlay Construction		861.6	143.1	1,004.7	863.2	1,004.7	-	
Capital Outlay Right-of-Way		20.4	(0.1)	20.3	12.2	20.3	-	
Project Reserve		20.8	35.3	56.2	-	56.2	-	
<b>Total New Benicia-Martinez Bridge Project</b>		<b>1,059.9</b>	<b>203.1</b>	<b>1,263.0</b>	<b>1,030.9</b>	<b>1,263.0</b>	-	
<b>Carquinez Bridge Replacement Project</b>	Construction							●
Capital Outlay Support		124.4	(1.1)	123.3	117.0	123.2	(0.1)	
Capital Outlay Construction		381.2	3.3	384.5	363.2	384.3	(0.2)	
Capital Outlay Right-of-Way		10.5	-	10.5	9.9	10.5	-	
Project Reserve		12.1	(2.2)	9.9	-	10.2	0.3	
<b>Total Carquinez Bridge Replacement Project</b>		<b>528.2</b>	<b>-</b>	<b>528.2</b>	<b>490.1</b>	<b>528.2</b>	-	
<b>Richmond-San Rafael Bridge Deck Overlay Rehabilitation</b>	Construction							●
Capital Outlay Support		8.0	(3.5)	4.5	2.1	4.5	-	
Capital Outlay Construction		16.9	3.6	20.5	1.9	20.5	-	
Project Reserve		0.1	(0.1)	-	-	-	-	
<b>Total Richmond-San Rafael Bridge Deck Overlay Rehabilitation</b>		<b>25.0</b>	<b>-</b>	<b>25.0</b>	<b>4.0</b>	<b>25.0</b>	-	
<b>I-880/SR-92 Interchange Reconstruction</b>	Design							●
Capital Outlay Support		28.8	-	28.8	29.5	51.7	22.9	
Capital Outlay Construction		94.8	-	94.8	-	122.5	27.7	
Capital Outlay Right-of-Way		9.9	-	9.9	8.0	12.4	2.5	
Project Reserve		0.3	-	0.3	-	9.7	9.4	
<b>Total I-880/SR-92 Interchange Reconstruction</b>		<b>133.8</b>	<b>-</b>	<b>133.8</b>	<b>37.5</b>	<b>196.3</b>	<b>62.5</b>	
<b>Program Completed Projects</b>	Complete							
Capital Outlay Support		54.0	(0.5)	53.5	54.0	55.4	1.9	
Capital Outlay Construction		307.5	(1.1)	306.5	291.7	296.8	(9.7)	
Capital Outlay Right-of-Way		1.7	-	1.7	0.5	0.8	(0.9)	
Project Reserve		2.5	1.6	4.1	-	1.8	(2.3)	
<b>Total Program Completed Projects</b>		<b>365.7</b>	<b>-</b>	<b>365.7</b>	<b>346.2</b>	<b>354.8</b>	<b>(10.9)</b>	
<b>Total Regional Measure 1 Program</b>		<b>2,112.6</b>	<b>203.1</b>	<b>2,315.7</b>	<b>1,908.7</b>	<b>2,367.3</b>	<b>51.6</b>	

● Within Approved Current Schedule and Budget

● Potential Cost and Schedule Impacts: Possible future need for Program Contingency Allocation

● Known Cost and Schedule Impacts: Request for Program Contingency Allocation forthcoming

Note: Details may not sum to totals due to rounding effects.

\* Cost forecasts are as of August 31, 2006. Forecasts for the Monthly Reports are generally updated on a quarterly basis in conjunction with Risk Analysis assessments for the TBSRP Projects and the TBSRP Quarterly Reports.

## Regional Measure 1 Program—Schedule

Project	BATA Project Complete Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Project Complete Schedule Forecast (08/2006)	Schedule Variance (Months)	Schedule Status	Remarks
a	b	c	d= b + c	e	f= e - d	g	h
<b>New Benicia-Martinez Bridge Project</b>							
• New Benicia-Martinez Bridge	Dec 07	-	Dec 07	Dec 07	-	●	
• I-680/I-780 Interchange Replacement	Dec 07	-	Dec 07	Feb 08	2	●	Final electrical work to be completed after Bridge Open to Traffic. See page 45.
• Open to Traffic Date	Dec 07	-	Dec 07	Dec 07	-	●	
<b>1927 Carquinez Bridge Demolition Project</b>	Dec 07	-	Dec 07	Dec 07	-	●	
<b>Richmond-San Rafael Bridge Deck Overlay Rehabilitation</b>	Jan 07	-	Jan 07	Jan 07	-	●	
<b>I-880/SR-92 Interchange Reconstruction</b>	Nov 10	-	Nov 10	Jun 11	7	●	Delay in the procurement of right-of-way is impacting the cost/schedule for this project. See page 51.

## Highlights of Project/Program Activities and TBPOC Actions for October 2006

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### **Toll Bridge Seismic Retrofit Program**

#### **SFOBB East Span Seismic Replacement Project**

- ◆ On the Yerba Buena Island South/South Detour Contract, Caltrans has narrowed the candidate designs to two types for the East tie-in. TY Lin, the design firm selected for the West tie-in design, has mobilized their team. (See page 18).
- ◆ Oakland Touchdown Submarine Cable Relocation contract conducted a bid opening on September 19, 2006. The TBPOC has directed various actions to address the impact of receiving only one bid, which was over the Engineer's Estimate. (See pages 9 and 22).
- ◆ In September 2006, the TBPOC approved the Plans, Specifications and Estimates for the Oakland Touchdown #1 (westbound) contract. (See page 23).

#### **Richmond-San Rafael Bridge Seismic Retrofit Project**

- ◆ The Richmond-San Rafael Public Access Project to construct a public access lot to comply with a Bay Conservation and Development Commission (BCDC) permit condition was advertised on October 2, 2006, with bids scheduled for opening on November 1, 2006. (See page 34).

### **Regional Measure 1 Program**

#### **New Benicia-Martinez Bridge Project**

- ◆ In September 2006, the TBPOC approved the commencement of negotiations for a Contract Change Order (CCO) for Open Road Tolling (ORT) work and other work required to open the Benicia-Martinez Bridge to traffic. (See page 47).





## PROJECT / CONTRACT REPORTS

### Toll Bridge Seismic Retrofit Program

#### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project Summary

- Skyway Contract
- Self-Anchored Suspension (SAS) Superstructure Contract
- Self-Anchored Suspension (SAS) E2/T1 Foundations Contract
- Yerba Buena Island (YBI)
  - \* Yerba Buena Island (YBI) South/South Detour Contract
  - \* Yerba Buena Island (YBI) Transition Structure Contracts
- Oakland Touchdown (OTD)
  - \* Oakland Touchdown (OTD) Submarine Cable Relocation Contract
  - \* Oakland Touchdown (OTD) #1 Contract
  - \* Oakland Touchdown (OTD) #2 Contract
- Other Major Contracts
- Other Contracts and Related Project Work

#### San Francisco-Oakland Bay Bridge (SFOBB) West Approach Replacement Project

#### Richmond-San Rafael Bridge Seismic Retrofit Project

#### Other Completed Seismic Retrofit Projects

## Toll Bridge Seismic Retrofit Program

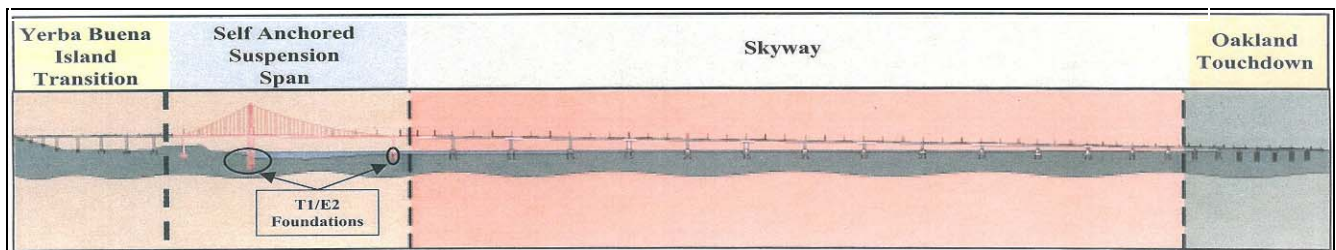
### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project Summary

**Project Description:** The East Span will be seismically retrofitted through the complete replacement of the existing span. The remaining effort for this project consists of the following contracts: Skyway—construction of two parallel concrete structures, each approximately 1.3 miles in length; Self-Anchored Suspension (SAS) Foundation—construction of SAS marine foundations; SAS Superstructure—construction of a self-anchored 385-meter main span superstructure incorporating a 160-meter fabricated structural steel tower with a main cable and inclined suspenders that will support steel orthotropic decks; Yerba Buena Island (YBI) South/South Detour—design and construction of a temporary double-deck bypass structure that will detour traffic to the existing SFOBB while completing the westerly permanent tie-in structure of the new East Span at Yerba Buena Island; YBI Structures—construction of a new structure connecting the western end of the self-anchored suspension to the Yerba Buena Island viaduct, which will be retrofitted; Oakland Touchdown—at the Oakland end of the East Span, construction of two parallel, cast-in-place post-tensioned concrete viaducts, which join the skyway to the at-grade Oakland approach fill; and Existing Bridge Demolition—demolition of the existing 1936 SFOBB East Span structure after the construction and placement of traffic onto the new East Span.

#### SFOBB East Span Replacement Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Capital Outlay Support	959.4	-	959.4	445.9	977.1	17.7
Capital Outlay				-	-	-
Skyway	1,293.0	-	1,293.0	1,053.9	1,293.0	-
SAS Superstructure	1,753.7	-	1,753.7	138.2	1,767.4	13.7
SAS E2/T1 Foundations	313.5	-	313.5	160.5	313.5	-
YBI Structures	299.3	-	299.3	-	318.5	19.2
Oakland Touchdown (OTD)	283.8	-	283.8	-	302.1	18.3
* OTD Submarine Cable				-	9.6	
* OTD No. 1 (Westbound)				-	226.1	
* OTD No. 2 (Eastbound)				-	62.0	
* OTD Electrical Systems				-	4.4	
YBI South/South Detour	131.9	-	131.9	34.5	169.1	37.2
Existing Bridge Demolition	239.2	-	239.2	-	222.0	(17.2)
Stormwater Treatment Measures	15.0	-	15.0	2.7	15.0	-
East Span Completed Projects	90.3	-	90.3	89.2	90.3	-
Right-of-Way and Environmental	72.4	-	72.4	38.8	72.4	-
Other Budgeted Capital	35.1	-	35.1	1.5	11.0	(24.1)
<b>TOTAL</b>	<b>5,486.6</b>	<b>-</b>	<b>5,486.6</b>	<b>1,965.2</b>	<b>5,551.4</b>	<b>64.8</b>

Note: Details may not sum to totals due to rounding effects.



SFOBB East Span Replacement Project

**SFOBB East Span Replacement Schedule Summary**

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
Skyway	April 2007	8	December 2007	December 2007	-
YBI South / South Detour*	July 2007	-	July 2007	TBD	TBD
Stormwater Treatment Measures	March 2008	-	March 2008	June 2007	(9)
SAS E2/T1 Foundations	June 2008	(3)	March 2008	March 2008	-
Open to Traffic: Westbound	September 2011	12	September 2012	September 2012	-
SAS Superstructure	March 2012	12	March 2013	March 2013	-
Open to Traffic: Eastbound	September 2012	12	September 2013	September 2013	-
Oakland Touchdown (OTD)	November 2013	12	November 2014	November 2014	-
* OTD Submarine Cable	n/a		July 2007	October 2007	3
* OTD No. 1 (Westbound)	n/a		July 2009	October 2009	3
* OTD No. 2 (Eastbound)	n/a		November 2014	November 2014	-
YBI Transition Structure*	November 2013	12	November 2014	November 2014	-
Existing Bridge Demolition*	September 2014	12	September 2015	September 2015	-

\* Contract schedules being further assessed due to changes in SAS schedule.

**Project Status:** Construction is currently ongoing on the Skyway, YBI South/South Detour, SAS E2/T1 Foundations and Stormwater Treatment Measures contracts. One contract is in the advertising/bid cycle: the Oakland Touchdown (OTD) Submarine Cable Relocation contract. Contracts in design include the OTD #1 (westbound), OTD #2 (eastbound), the YBI Transition Structure (YBITS) Contract #1, YBITS Contract #2, and Existing Bridge Demolition contract. Design of each contract is proceeding per its schedule requirements, however, work on the Existing Bridge Demolition contract has been temporarily suspended to assign engineering resources to higher priority tasks, and will resume at a later time. Bids for the OTD Submarine Cable Relocation Contract were opened on September 19, 2006; however, only one bid was received and it was higher than the Engineer's Estimate. The TBPOC has directed various actions to either award that contract to the single bidder, or rebid it depending on the results of discussions with the City of San Francisco and staff assessments of cost/schedule impacts associated with specific course of action.

SAS contract addenda extended the SAS contract by a total of 12 months but also provided for an early completion incentive. There has been a like impact to the Westbound and Eastbound Open to Traffic dates, and the completion of the OTD, YBI Transition Structure, and the Existing Bridge Demolition contracts. The East Span corridor cost and schedule forecast does not assume achievement of the early completion incentive that was also part of Addendum #7; however, schedule planning of the future construction contracts continues assuming that the SAS early completion is achieved to ensure that they will not impact bridge opening in that event.

**Project Issues:** All projects now have a Risk Response Team and a Risk Register incorporating quantitative risk analyses. A preliminary risk register has also been developed for Capital Outlay Support (COS) costs, as has a program-level risk register that captures risks common to all projects; the development of a quantitative COS risk analysis is in progress. The Risk Response Teams have focused attention on developing and executing risk response actions for their most significant risks. Many of the actions have been effective, as evidenced by a reduction of risk impacts on the Skyway and E2/T1 contracts from the previous quarter. The effort to develop and execute risk response actions to mitigate the cost and schedule impacts posed by risk issues will continue to be a high priority.

**Recent TBPOC Actions:** See the following contract detail pages for specific TBPOC actions on East Span contracts.

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► SKYWAY CONTRACT

**Contract Description:** The Skyway contract constructs two parallel pre-cast concrete approach spans from Oakland to the self-anchored suspension span near Yerba Buena Island.

#### Skyway Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
East Span - Skyway						
Capital Outlay Support	197.0	-	197.0	145.9	197.0	-
Capital Outlay Construction	1,293.0	-	1,293.0	1,053.9	1,293.0	-
<b>TOTAL</b>	<b>1,490.0</b>	<b>-</b>	<b>1,490.0</b>	<b>1,199.8</b>	<b>1,490.0</b>	<b>-</b>

*Note: Details may not sum to totals due to rounding effects.*

#### Skyway Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
East Span - Skyway	April 2007	8	December 2007	December 2007	-

**Contract Status:** The Skyway contract is currently in construction and is 93% complete as of September 20, 2006. The foundation work is complete with the exception of installing fenders around six of the pier footings. Four fenders have been completed; the remaining fenders are scheduled to be completed by October 2006. The eastbound structure is 100% complete with the erection of all segments, while the westbound structure has erected 216 of the 226 segments (96%) with 10 segments remaining to be erected. A total of 442 segments (98%) have been installed to date. Erection activities are underway at Pier 3W and Pier 6W (refer to diagram on page 13). Bike path cantilever beam installation is complete and the installation of the panel segments is currently 60% complete. The hinge pipe beams at hinge BW are scheduled for delivery in late November 2006.

**Contract Issues:**

Issue	Mitigating Action
KFM issued 15 NOPC's on behalf of USI for welding issues related to the fabrication of the Steel Orthotropic Box Girders (SOBG).	USI completed the fabrication of the SOBG. All NOPC's filed were recommended to be heard by the Dispute Review Board.
An eight-month schedule extension is forecast as a result of issues that affect the controlling operations, to include hinge pipe beam fabrication, service platforms, electrical appurtenances, polyester concrete overlay, modular joints and other tasks to be completed.	An overall settlement has been reached with the Contractor to resolve all the cost and schedule impacts posed by these issues. A time extension of 220 working days, extending the project completion date to December 2007 has been approved by the TBPOC. The change in schedule to the Skyway contract is not expected to delay the overall open-to-traffic date for the East Span Replacement project, nor is the cost associated with this settlement expected to impact the overall budget for the Skyway contract or the project.

**Recent TBPOC Actions:** In July 2006, the TBPOC approved a strategy for finalizing settlement with the Contractor on the various issues mentioned above. In August 2006, the TBPOC approved Contract Change Order (CCO) # 200, Skyway Contract: Overall Settlement of Outstanding Issues, in the amount of \$94.4 million, and an associated change in the contract completion date from January 2007 to December 2007. CCO 200 was executed by Caltrans.

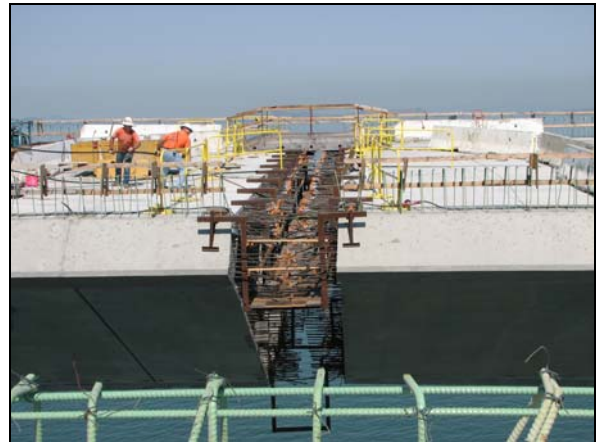
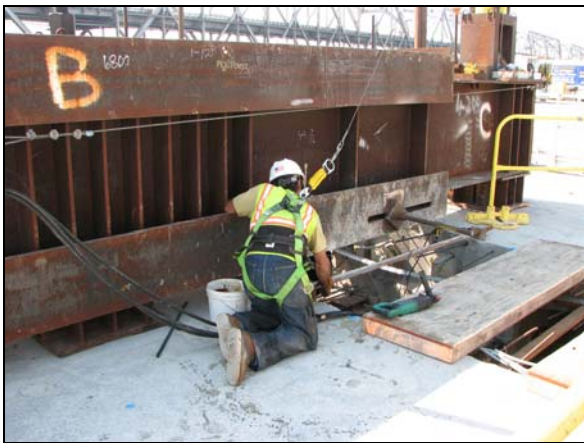
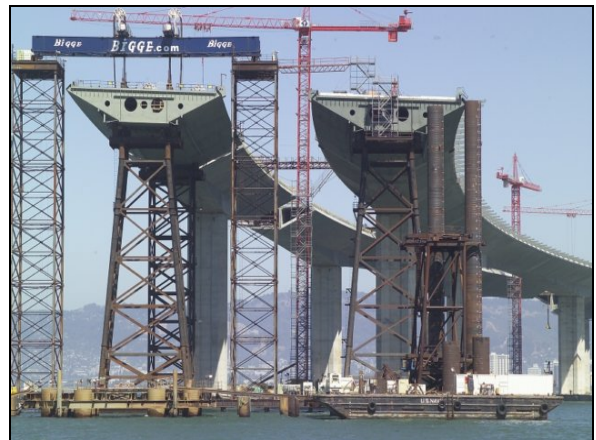
**Contract Photographs**

*Bike Path Railing for the Eastbound Skyway*

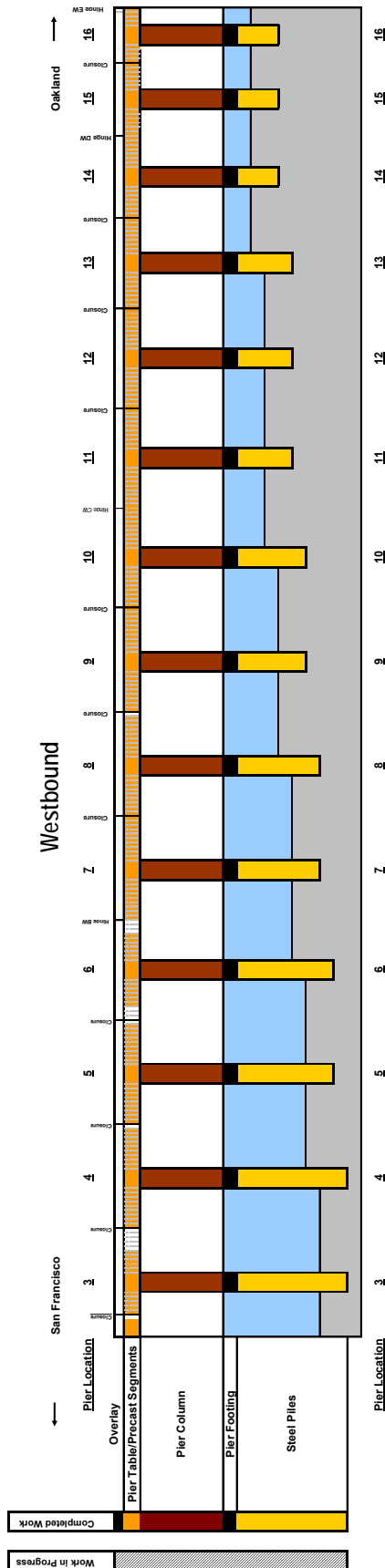
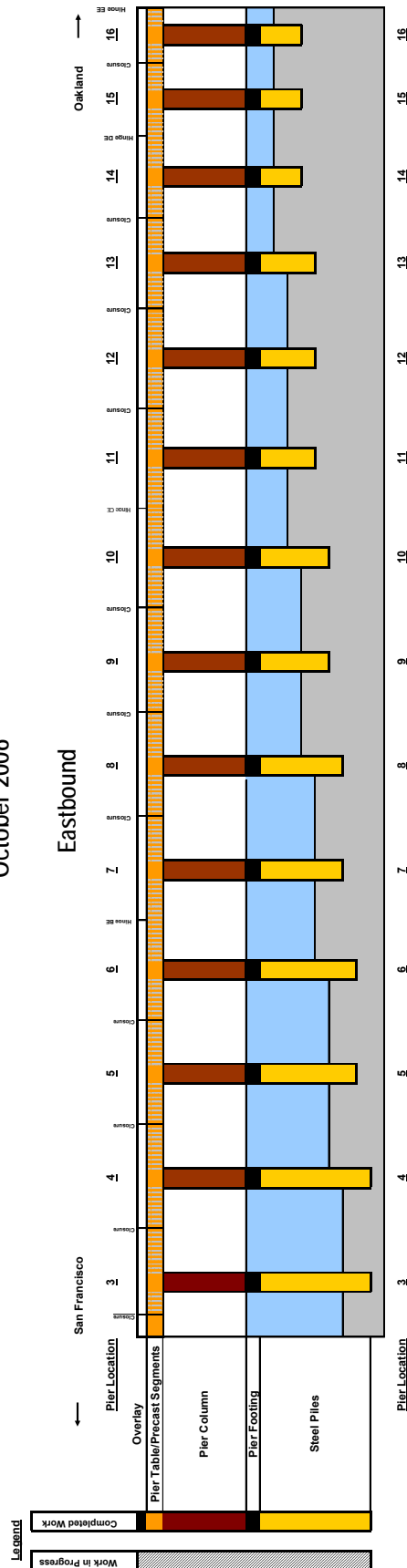


*Cormorant Nesting Platform Installation*



**Contract Photographs Cont'd.***Closure Pour at Orthotropic Box Girder (OBG)**Closure Pour Span 5A**Jacking at Interior Closure Pour at Span 9**Westbound OBG**West end of the Skyway**West end of the Skyway*

# San Francisco-Oakland Bay Bridge East Span Replacement Project - Skyway Contract October 2006



## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► SELF-ANCHORED SUSPENSION (SAS) SUPERSTRUCTURE CONTRACT

**Contract Description:** The Self-Anchored Suspension (SAS) Superstructure contract constructs a signature tower span between the skyway and the Yerba Buena Island transition structure. Work on the SAS bridge has been split between three contracts—the SAS Superstructure (under construction), the SAS E2/T1 Foundation (under construction), and the SAS W2 Foundation (completed).

#### SAS Superstructure Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	B	c	d = b + c	e	f	g = f - d
East Span - SAS Superstructure						
Capital Outlay Support	214.6	-	214.6	23.3	214.6	-
Capital Outlay Construction	1,753.7	-	1,753.7	138.2	1,767.4	13.7
<b>TOTAL</b>	<b>1,968.3</b>	<b>-</b>	<b>1,968.3</b>	<b>161.5</b>	<b>1,982.0</b>	<b>13.7</b>

*Note: Details may not sum to totals due to rounding effects.*

#### SAS Superstructure Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
East Span - SAS Superstructure	March 2012	12	March 2013	March 2013	-

**Contract Status:** The contract is 10% complete as of September 20, 2006. The Contractor, American Bridge Fluor Enterprises, Inc., a Joint Venture (ABF), continues to mobilize staff to the field office on Pier 7. Development of various administrative submittals, including the baseline schedule, is continuing. Four working drawings have been received for review. The Contractor is finalizing agreements with manufacturers, fabricators, suppliers and subcontractors, and signed a steel fabrication subcontract with Zhenhua Port Machinery Company (ZPMC), of Shanghai, China, on July 18, 2006.

The forecast \$13.7 million increase in construction costs on the SAS contract from the approved budget reflects actions taken to encourage additional bidders for the contract.



**Contract Issues:**

Issue	Mitigating Action
Caltrans' Toll Bridge Seismic Retrofit Program Manager and East Span Replacement Project Manager have visited the ZPMC steel fabrication facilities in China and have identified the need for additional resources to monitor that work.	Caltrans and BATA are working together to set up facilities and to organize resources that will ensure an effective Owner's presence in the steel fabrication shops.
Potential for cost increases during construction due to steel plate conflicts. Applies to structural steel including the towers and box girders.	Establish Working Drawing Campus with Contractor to facilitate discussion about conflicts and meet regularly. Caltrans has constructed models and has identified conflicts, for which CCOs are to be prepared. Number of required mockups in the contract was reduced by addendum due to concerns about time for construction. Could continue to look at potential for mockups. Facilitated Cost Reduction Incentive Proposal (CRIP) sessions to discuss more changes and improvements at the beginning of the contract.
Delay to the contract or increased costs due to conflicts or differing opinions over welding.	Set up FAST team to elevate and address issues early. Numerous specifications revised in response to bidder inquiries, additional internal reviews, and lessons learned. Require independent Quality Control and trial weld mockups of the Contractor. Add QA staff to fabrication shop. METS has one of the AWS Board members on staff. Can use on-call consultants to bring in experts for additional QA guidance if necessary.

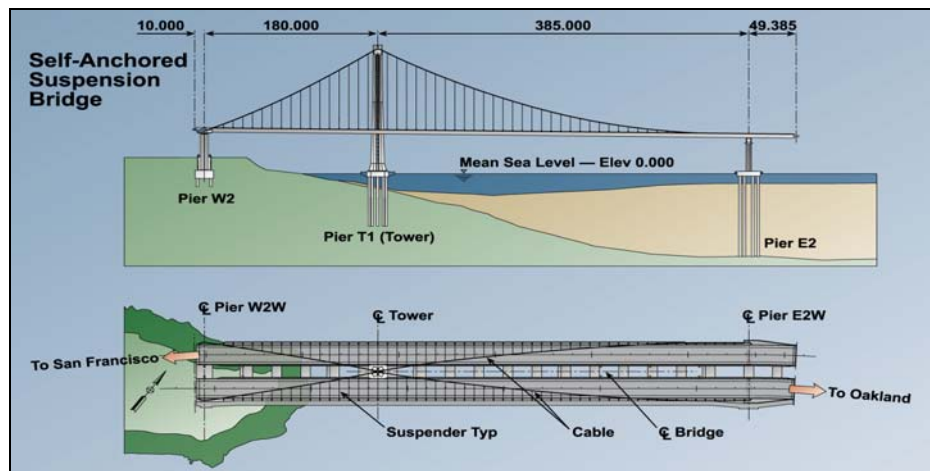
**Recent TBPOC Actions:** None.

**Contract Photographs**

SAS Superstructure Artist Rendition



View of the Western End of the Skyway Contract that will connect with the Future SAS Contract.



## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► SELF-ANCHORED SUSPENSION (SAS) E2/T1 FOUNDATIONS CONTRACT

**Contract Description:** The Self-Anchored Suspension (SAS) E2/T1 Foundations contract constructs the main tower foundation at T1 and the adjacent east foundation at E2.

#### SAS E2/T1 Foundations Cost Summary (\$ Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
East Span - SAS E2 / T1 Foundations						
Capital Outlay Support	52.5	-	52.5	13.9	52.5	-
Capital Outlay Construction	313.5	-	313.5	160.5	313.5	-
<b>TOTAL</b>	<b>366.0</b>	<b>-</b>	<b>366.0</b>	<b>174.4</b>	<b>366.0</b>	<b>-</b>

*Note: Details may not sum to totals due to rounding effects.*

#### SAS E2/T1 Foundations Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
East Span - SAS E2 / T1 Foundations	June 2008	(3)	March 2008	March 2008	-

**Contract Status:** The contract is 54% complete as of September 20, 2006. Pile driving for the E2 piles has been completed. T1 pile drilling operations will resume soon pending receipt of permanent pile casing material from Transbay Steel. Fabrication of the permanent steel casings for the CIDH piles at T1 is approximately 10% complete. Fabrication of steel pile top sections for CISS piles at E2 has been completed. Fabrication of the T1 footing box is approximately 45% complete. Fabrication of the steel footing frame for Pier E2 was completed and was delivered to Oakland on September 14, 2006.

**Contract Issues:**

Issue	Mitigating Action
A differing site condition at a T1 rock socket which increased costs.	Contractor has similar experience from Benicia-Martinez Bridge. Contractor already has under reamer on site (from Benicia) and is part of the plan. Design is conservative, which may allow some variation in pile construction and rock hardness. Additional options not planned at this time include boring additional holes to confirm soil conditions, however, determination of rock hardness for the given installation method will still be difficult to do until the actual equipment is used. Note that having E2/T1 footings as a separate contract is a risk mitigation measure for the SAS contract; however, any additional time saved from early completion of E2/T1 will require payment of the early completion bonus.
A differing site condition at a T1 casing (temporary or permanent) which increased costs.	Design is conservative, which may allow some variation in pile construction and rock hardness. Contingency plan includes directing Contractor's installation sequence while extra casing is fabricated. Contractor adjusted installation methods-solution expected to work. Second Differing Site Conditions (DSC) request is under review. Additional options not planned at this time include boring additional holes to confirm soil conditions or purchasing extra casing or steel plate.

**Recent TBPOC Actions:** None.

**Project Photographs**

*Cofferdam Frame for E2*



*E2-T1 Footing Frame*



*Lifting the Bubble Curtain at E2*



*Lifting the Pile Driving Hammer*

**TOLL BRIDGE SEISMIC RETROFIT PROGRAM****San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project****► YERBA BUENA ISLAND (YBI)****• SOUTH/SOUTH DETOUR CONTRACT**

**Contract Description:** The Yerba Buena Island (YBI) South/South Detour (SSD) Contract constructs a temporary detour from the YBI tunnel to the existing east span of the Bay Bridge. This detour maintains traffic on the existing bridge while the YBI Transition Structure Contract completes the tie-in from the SAS to the existing tunnel.

**YBI South/South Detour Cost Summary (\$Millions)**

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
YBI South/South Detour						
Capital Outlay Support	29.5	-	29.5	16.4	29.5	-
Capital Outlay Construction	131.9	-	131.9	34.5	169.1	37.2
<b>TOTAL</b>	<b>161.4</b>	<b>-</b>	<b>161.4</b>	<b>50.9</b>	<b>198.6</b>	<b>37.2</b>

*Note: Details may not sum to totals due to rounding effects.*

**YBI South/South Detour Schedule Summary**

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
YBI South / South Detour *	July 2007	-	July 2007	TBD	TBD

\* Contract schedule under assessment. See Contract Issues below.

**Contract Status:** The contract work is 39% complete as of September 20, 2006. The viaduct portion of the contract is performance-based, whereby the Contractor is responsible for both the design and construction of viaduct structure. The West and East tie-in design work was taken over by Caltrans. TY Lin/Moffat Nicol, Joint Venture, has been tasked to design the East tie-in, and their team has mobilized. Caltrans will design the West tie-in. The contractor will still construct the tie-ins. To minimize impacts to the traveling public due to the current SAS schedule, the tie-in work has been suspended. This schedule is being evaluated; see Contract Issues.

The suspension of the tie-in work has necessitated additional design enhancements to the viaduct segment to allow it to stand in place alone for a longer duration and to improve its seismic safety. The transfer of steel from the fabricator, Shanghai Grand Towers, Ltd. to Dongkuk S&C of South Korea has been completed. Shop drawings for the Viaduct structure are currently being prepared. Concurrently, Dongkuk S&C is in the process of preparing the Welding Quality Control Plan for approval.

A cost variance from the Current Approved Budget in the amount of 37.2 million is forecast for the SSD contract due to issues related to potential extension of the contract schedule integrate it with the SAS contract schedule; the cost impact of possible risks associated with the roll-out of a portion of the existing bridge structure and the roll-in of a replacement span at the East tie-in; and the impact of potential risks related to the demolition of the existing structure.



**Contract Issues:**

Issue	Mitigating Action
Delay to the SAS contract due to re-advertising and Addenda #5 and #7 to the SAS contract has impacts on the South/South Detour Contract.	<p>The TBPOC approved a plan to continue with the currently programmed SSD structure (see Recent TBPOC Actions below). Various options concerning contract scope and schedule are being considered to efficiently complete this contract while integrating any future SAS schedule revisions.</p> <p>The amount of contract delay is subject to analysis by Caltrans and negotiation with the Contractor. The projected delay to the project is not expected to delay the overall open-to-traffic date for the East Span Replacement project, but is likely to have a significant impact to the SSD contract completion date.</p>
Short term (during construction) problems with roll out/roll in at East Tie-in causes delay and impacts traffic and public safety during construction.	Will not start work until a satisfactory contingency plan has been determined. Caltrans has taken over the design and is implementing a design with a higher factor of safety than the Contractor originally planned. . Caltrans will engage Contractor during the design process. Traffic closure is contractually specified to occur during the weekend for least impact to traffic.
Issues develop with demolition of the existing structure	Timely submittal of demolition plan. Contract specifies review time.

**Recent TBPOC Actions:** In May 2006, the TBPOC approved a plan to continue with the currently programmed double-decked eastbound and westbound SSD, and authorized Caltrans to take over the design of the tie-in structures.

**Contract Photographs***Aerial View of SSD**Aerial View of SSD**SSD Construction**SSD Slope Protection*

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► YERBA BUENA ISLAND (YBI)

##### • YBI TRANSITION STRUCTURE CONTRACTS

**Contract Description:** The YBI Transition Structure #1 Contract will construct the mainline YBI transition structures (YBITS). These will connect the SAS portion of the new bridge to the existing YBI tunnels and also includes all work required to place traffic onto the new bridge. The YBI Transition Structures #2 Contract includes demolition of the South/South Detour (SSD) temporary structure, seismic retrofit of the existing YBI viaduct, completion of the new eastbound on-ramp, completion of the bike path section at YBI and reconstruction of local and affected facilities at YBI. The YBI Landscaping Contract includes slope restoration, vegetation restoration and plant maintenance for the areas affected by YBI construction.

#### YBI Transition Structure Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
YBI Transition Structure #1						
Capital Outlay Support	78.7	-	78.7	10.2	78.7	-
Capital Outlay Construction	299.3	-	299.3	-	318.5	19.2
<b>TOTAL</b>	<b>378.0</b>	<b>-</b>	<b>378.0</b>	<b>10.2</b>	<b>397.2</b>	<b>19.2</b>

*Note: Details may not sum to totals due to rounding effects.*

#### YBI Transition Structure Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
YBI Transition Structure #1	November 2013	12	November 2014	November 2014	-

**Contract Status:** For the YBI Transition Structure #1 Contract, preparation of PS&E packages is currently underway. Decision on the SSD final design will impact design work on the YBI Mainline Structures contract. For the YBI Transition Structures #2 Contract, majority of the design work is complete. Preparation of detailed plans and quantity calculations are in progress. Design work on the existing viaduct retrofit is pending a decision on whether to include it as part of West Tie-In Phase 1 work in the SSD contract. If it is included as West Tie-In Phase 1 work, it would consist of a replacement of the viaduct as the retrofit strategy and the scope would be removed from this contract. Decision on the SSD final design will impact design work on the YBI Transition Structure #2 Contract. For the YBI Landscaping Contract, a planting concept and preliminary plans have been developed for majority of the area. Determination of the extent of the U.S. Coast Guard area to be landscaped is still pending. Development of the final plans has not been completed.

**Contract Issues:**

Issue	Mitigating Action
YBITS #1: A differing site condition causes delay and/or increased costs to occur. Includes utilities and hazardous materials.	Potholing done for footings and utilities. Need to determine cost/benefit of doing more potholing. Advancing some foundation work is being considered. Old building foundations drawings have been found. Need to study and use to look in the field. Look into ground penetrating radar to look for subsurface conditions in new footing locations.
YBITS #1: Slopes around structure excavations become unstable.	Review specs to determine if concern about slope stability is adequately conveyed in contract.
YBITS #2: The design of the remedial work on the existing viaduct cannot start until SSD East Tie-In design is complete.	The corridor schedule is being paced and the PS&E date will be adjusted as necessary. Original YBITS Contract scope has been split to mitigate potential delay risks. Caltrans has assumed SSD west tie in design and will incorporate elements of final design.

**Recent TBPOC Actions:** None

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► OAKLAND TOUCHDOWN

##### • OAKLAND TOUCHDOWN SUBMARINE CABLE RELOCATION CONTRACT

**Contract Description:** The OTD Submarine Cable Contract will replace the existing submarine electrical cable from Oakland to Treasure Island, and will be completed ahead of OTD Contract No. 1 to avoid possible construction conflicts.

#### Oakland Touchdown Submarine Cable Relocation Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
OTD Submarine Cable						
Capital Outlay Support	-	-	-	-	3.0	-
Capital Outlay Construction	-	-	-	-	9.6	-
<b>TOTAL</b>	-	-	-	-	12.6	-

*Note: Details may not sum to totals due to rounding effects. The allocation of AB144/SB 66 budgets is proceeding. Budget amount is TBD. Overall OTD budgets and forecasts are shown on page 2.*

#### Oakland Touchdown Submarine Cable Relocation Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
OTD Submarine Cable	TBD	-	July 2007	October 2007	3

**Contract Status:** This contract was advertised for bids on July 31, 2006. Bid opening for the OTD Submarine Cable, which was scheduled for September 12, 2006, occurred on September 19, 2006. Only one bid was received. See Contract Issues below.

#### Contract Issues:

Issue	Mitigating Action
Only one bid was received for the Oakland Touchdown Submarine Cable Relocation contract, and the bid amount was substantially over the Engineer's Estimate.	BATA and the City of San Francisco are in discussions concerning whether to re-advertise this contract, or to provide funding on the basis of the single bid received.

**Recent TBPOC Actions:** In September 2006, the TBPOC directed various actions to either award the contract to the single bidder, or rebid it. These actions depend on the results of discussions with the City of San Francisco and on staff assessments of cost/schedule impacts associated with specific courses of action.



## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► OAKLAND TOUCHDOWN

##### • OAKLAND TOUCHDOWN #1 CONTRACT

**Contract Description:** The Oakland Touchdown #1 Contract includes construction of all marine foundations, westbound bridge section and roadway approach for the section that connects the new Skyway portion to the roadway west of the Oakland Toll Plaza. This contract also constructs the electrical substation and the eastbound detour roadway. Traffic will not be placed on the detour until later during OTD #2.

#### Oakland Touchdown #1 Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Oakland Touchdown #1						
Capital Outlay Support	-	-	-	-	49.9	-
Capital Outlay Construction	-	-	-	-	226.5	-
<b>TOTAL</b>	-	-	-	-	<b>276.4</b>	-

*Note: Details may not sum to totals due to rounding effects. The allocation of AB144/SB 66 budgets is proceeding. Budget amount is TBD. Overall OTD budgets and forecasts are shown on page 2.*

#### Oakland Touchdown #1 Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
Oakland Touchdown #1	-	-	July 2009	October 2009	3

**Contract Status:** Design work is complete. Plans, Specifications, and Engineer's Estimate (PS&E) were submitted to the Office Engineer on September 1, 2006. Bid advertise date is scheduled in early 2007 and contract completion is scheduled October 2009.

#### Contract Issues:

Issue	Mitigating Action
A differing site condition causes delay and/or increased costs. Does not include utilities or existing structure.	Supplemental funds have been allocated for buried manmade objects. Exploratory borings have been performed at each pier. Plans show anticipated riprap locations. Investigating value of performing additional borings
Delay and or increased costs due to conflict unknown utilities.	Construction to provide to Design for OTD contract any utilities found on Stormwater Treatment Measures Contract.

**Recent TBPOC Actions:** In September 2006, the TBPOC approved the Plans, Specifications and Estimates for the OTD #1 contract.

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► OAKLAND TOUCHDOWN

##### • OAKLAND TOUCHDOWN #2 CONTRACT

**Contract Description** The Oakland Touchdown #2 Contract includes construction of the remaining eastbound bridge section and roadway approach for the section that connects the new Skyway portion to the roadway west of the Oakland Toll Plaza. This work would occur once the westbound traffic is shifted onto the new SAS.

#### Oakland Touchdown #2 Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Oakland Touchdown #2						
Capital Outlay Support	-	-	-	-	15.8	-
Capital Outlay Construction	-	-	-	-	62.0	-
<b>TOTAL</b>	-	-	-	-	77.8	-

*Note: Details may not sum to totals due to rounding effects. The allocation of AB144/SB 66 budgets is proceeding. Budget amount is TBD. Overall OTD budgets and forecasts are shown on page 2.*

#### Oakland Touchdown #1 Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
Oakland Touchdown #2	-	-	November 2014	November 2014	-

**Contract Status:** Design work for the structures portion of OTD Contract No. 2 is complete. Design work on the roadway portion is pending a decision on the realignment of the eastbound roadway.

**Contract Issues:** None

**Recent TBPOC Actions:** None

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► OTHER MAJOR CONTRACTS

**Contract Description:** Other Major Contracts include the Stormwater Treatment Measures contract, which will implement best practices for stormwater runoff treatment at the SFOBB toll plaza; the Oakland Touchdown Electrical Systems Contract, which will incorporate most of the electrical elements from OTD as well as from other segments of the East Span; and the Existing Bridge Demolition contract, which will include the complete removal of the existing 1936 east span following the opening of the new bridge.

#### Other Major Contracts Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
A	b	c	d = b + c	e	f	g = f - d
Capital Outlay Support	238.8	-	238.8	37.4	256.5	17.7
Capital Outlay Construction						-
Existing Bridge Demolition	239.2	-	239.2	-	222.0	(17.2)
Stormwater Treatment Measures	15.0	-	15.0	2.7	15.0	-
Total Capital Outlay Construction	254.2	-	254.2	2.7	237.0	(17.2)
<b>TOTAL</b>	<b>493.0</b>	<b>-</b>	<b>493.0</b>	<b>40.1</b>	<b>493.5</b>	<b>0.5</b>

Note: Details may not sum to totals due to rounding effects.

#### Other Major Contracts Schedule Summary

Contract	AB 144/SB 66 Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)	% Design Comp.
Existing Bridge Demolition	September 2014	12	September 2015	September 2015	-	10
Stormwater Treatment Measures	March 2008		March 2008	June 2007	(9)	N/A

#### Contract Status:

**Stormwater Treatment Measures:** The Contractor is Diablo Constructors. The current schedule forecast reflects the actual award date that was earlier than planned plus a reduced construction contract duration that was shown in the Contractor's bid. The contract is **24%** complete as of **September 20**, 2006.

**Work continues on installation of drainage structures along Radio Road, installation of ductile iron pipe, and installation of pump stations.** Work has been delayed due to nesting birds, differing site conditions, and discovery of unsuitable materials.

**Oakland Touchdown Electrical Systems:** Determination of contract scope is underway. Caltrans is also considering the option of incorporating this work into the Oakland Touchdown #2 contract.

**Bridge Demolition:** Design is 10% complete. Design work has been temporarily suspended to assign engineering resources to higher priority tasks, and will resume at a later time. The contract schedule completion date has been extended by 12 months due to a 12-month SAS contract extension. The \$17.2 million decrease in construction costs for the Existing Bridge Demolition contract is due to a re-evaluation of cost escalation rates for the contract.

**Contract Issues:** None

**Recent TBPOC Actions:** None

#### Contract Photographs



*Concrete Apron for Drainage System 209*



*Concrete Casing for 750 RCP Across I-80 Freeway*



*Drainage System 208 Installation*



*Pump Station 1B Valve Vault*

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project

#### ► OTHER COMPLETED CONTRACTS AND RELATED WORK

**Summary Description:** Substantial work has already been performed on the SFOBB East Span Replacement project to facilitate construction of the mainline construction contracts.

#### Other Contracts and Related Work Cost Summary (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	E	f	g = f - d
Capital Outlay Support	227.0	-	227.0	209.0	227.0	-
Right-of-Way and Environmental Mitigation	72.4	-	72.4	38.8	72.4	-
Capital Outlay Construction						-
SAS W2 Foundations	26.4	-	26.4	25.8	26.4	-
YBI/SAS Archeology	1.1	-	1.1	1.1	1.1	-
YBI - USCG Road Relocation	3.0	-	3.0	2.8	3.0	-
YBI - Substation and Viaduct	11.6	-	11.6	11.3	11.6	-
Oakland Geofill	8.2	-	8.2	8.2	8.2	-
Pile Installation Demonstration Project	9.2	-	9.2	9.2	9.2	-
Existing East Span Retrofit	30.8	-	30.8	30.8	30.8	-
Total Capital Outlay Construction Completed	90.3	-	90.3	89.2	90.3	-
<b>TOTAL</b>	<b>389.7</b>	<b>-</b>	<b>389.7</b>	<b>337.0</b>	<b>389.7</b>	

*Note: Details may not sum to totals due to rounding effects.*

#### Other Contracts and Related Work Schedule Summary

Project	Actual Project Completion Date
Existing East Span Retrofit	March 1998
Interim Retrofit	July 2000
Pile Installation Demolition Project	December 2000
YBI / SAS Archaeology	January 2003
Oakland Geofill	April 2003
YBI - USCG Road Relocation	June 2004
SAS W2 Foundations	October 2004
YBI Substation and Viaduct	May 2005

**Summary Status:** Construction has been completed on the above listed contracts. Caltrans continues to work with various environmental agencies to conduct compliance inspections and monitor and mitigate any environmental impacts from the project.

**Contract Issues:** None.

**Recent TBPOC Actions:** None.

## Toll Bridge Seismic Retrofit Program

### San Francisco-Oakland Bay Bridge (SFOBB) West Approach Replacement Project

**Project Description:** The SFOBB West Approach Replacement Project will replace the entire west approach structure from 5<sup>th</sup> Street to the west anchorage of the existing west spans of the SFOBB while maintaining existing traffic lanes for the weekday commute.

#### SFOBB West Approach Replacement Cost Summary (\$Millions)

Project	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
West Approach						
Capital Outlay Support	120.0	-	120.0	81.9	120.0	-
Capital Outlay Construction	309.0	-	309.0	203.0	309.0	-
<b>TOTAL</b>	<b>429.0</b>	<b>-</b>	<b>429.0</b>	<b>284.9</b>	<b>429.0</b>	<b>-</b>

*Note: Details may not sum to totals due to rounding effects.*

#### SFOBB West Approach Replacement Schedule Summary

Project	AB 144/SB 66 Project Completion Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
West Approach	August 2009	-	August 2009	August 2009	-

**Project Status:** Construction is 72% complete as of September 20, 2006. Seismic retrofit construction is continuing throughout the project. Major ongoing work during September included continuation of work on the next phase of piles for the permanent eastbound I-80 mainline structures and completion of all interim mainline structure piles (ST6D alignment), the 5th Street and Harrison Street ramps, the 4th Street retrofit work, and falsework erection for Frame 8U (South). Additional progress was made on work leading to the re-opening of Beale Street to vehicular traffic by mid-October 2006.

#### Project Issues:

Issue	Mitigating Action
Pile investigation and testing for the identification of pile anomalies must be completed in a timely manner so as to avoid construction impact.	Caltrans Construction coordinates closely with Structure Design and METS daily on pile investigation and testing issues, and proactively monitors this effort. Tracking of the testing effort is done for each individual pile. Team participation in Risk Management meetings has proven to be valuable in addressing this issue.

**Recent TBPOC Actions:** In August 2006, the TBPOC approved the CCO in the amount of \$4.5 million for the demolition of Frames 7U (South), 8U (South), and portion of 6U, which occurred during Labor Day weekend 2006.



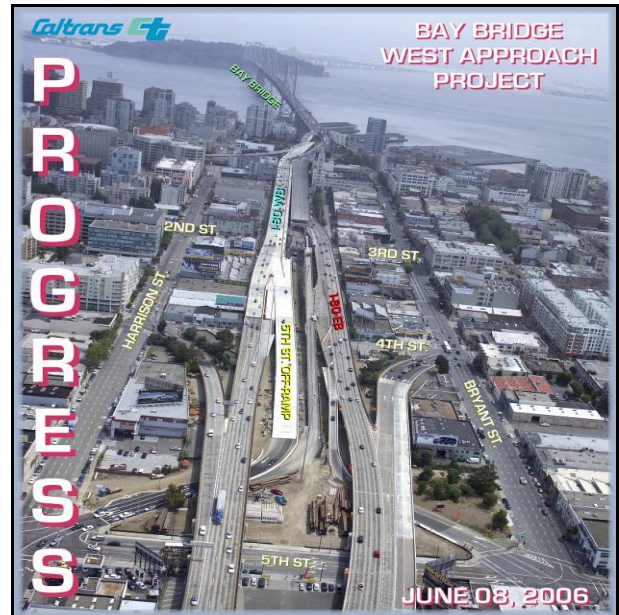
## Project Photographs



All Three TOG



Overview Picture of West Approach Project



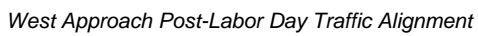
Interim Eastbound I-80: Stage 6 Detour (ST6D)





*West Approach Labor Day Weekend Demolition Aerial View*





## Toll Bridge Seismic Retrofit Program

### Richmond-San Rafael Bridge (RSRB) Seismic Retrofit Project

**Project Description:** The Richmond-San Rafael (RSR) Bridge Seismic Retrofit Project strengthened the existing bridge to withstand the effects of a large seismic event. As part of the retrofit work, Caltrans performed work to strengthen the bridge foundations, replace the existing west trestle and the main channel fenders, and complete the joint rehabilitation of the bridge deck. (The RM1 work is reported in the RM1 section of the report).

#### RSRB Seismic Retrofit Cost Summary (\$Millions)

Project	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
RSRB Seismic Retrofit						
Capital Outlay Support	134.0	-	134.0	125.5	127.0	(7.0)
Capital Outlay Construction	780.0	-	780.0	663.8	698.0	(82.0)
<b>TOTAL</b>	<b>914.0</b>	<b>-</b>	<b>914.0</b>	<b>789.3</b>	<b>825.0</b>	<b>(89.0)</b>

*Note: Details may not sum to totals due to rounding effects.*

\* The seismic retrofit contract included work to rehabilitate the bridge deck joints. Although the deck joint work was funded from RM1 toll funds, the work is also eligible for Toll Bridge Seismic Retrofit Program funding. In July 2005, BATA rescinded \$16.9 million in RM1 funds for the deck joint work to make additional RM1 funds available for the New Benicia-Martinez Bridge Project. An equivalent amount of seismic funds will be used on the deck joint work, which is included in the budget above.

#### RSRB Seismic Retrofit Schedule Summary

Project	AB 144/SB 66 Project Completion Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
RSRB Seismic Retrofit	August 2005	-	August 2005	October 2005	2
RSRB Public Access Project	NA	-	May 2007	May 2007	-

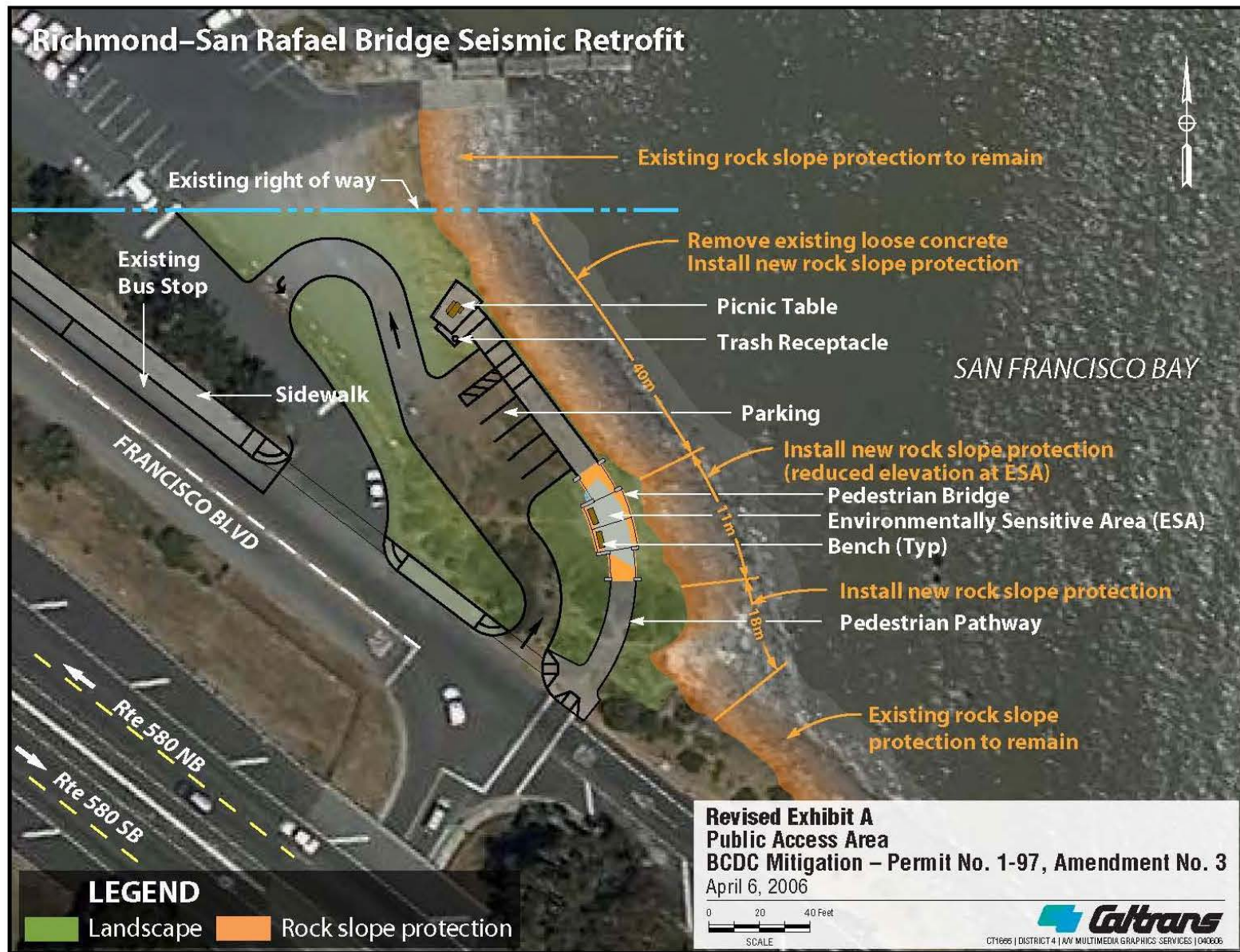
**Project Status:** The construction contract was completed and accepted on October 28, 2005. Caltrans is expecting at least \$89 million in savings from the AB 144 / SB 66 budget. The Project Complete Current Approved Schedule was revised to May 2007 as adopted by BATA July 2006.

Caltrans has submitted the project plans and specifications for a public access lot on the Marin side of the bridge to comply with a Bay Conservation and Development Commission (BCDC) permit condition (see the exhibit on page 33). Caltrans is using the A+B bid specification in order to optimize the project completion date. BATA has approved the Public Access Project technical documents. At its July 26, 2006 meeting, the BATA commission provided funding. This project was Ready to List on August 31, 2006. It was advertised on October 2, 2006, and bids will be opened on November 1, 2006.

**Contract Issues:** None.

**Recent TBPOC Actions:** None.





## Toll Bridge Seismic Retrofit Program

### Other Completed Seismic Retrofit Projects

**Summary Description:** Caltrans has already completed the seismic retrofits of the West Spans of the SFOBB, the existing 1958 Carquinez Bridge, the existing Benicia-Martinez Bridge, the San Mateo-Hayward Bridge, and two former toll bridges in southern California.

#### Other Completed Seismic Retrofit Projects Cost Summary (\$Millions)

Project	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	F	g = f - d
San Francisco-Oakland Bay Bridge West Span Seismic Retrofit Project	307.9	-	307.9	301.0	307.9	-
Carquinez Bridge Retrofit Project	114.2	-	114.2	114.2	114.2	-
Benicia-Martinez Bridge Retrofit Project	177.8	-	177.8	177.8	177.8	-
San Mateo-Hayward Bridge Retrofit Project	163.5	-	163.5	163.4	163.5	-
Vincent Thomas Bridge Retrofit Project	58.5	-	58.5	58.4	58.5	-
San Diego-Coronado Bridge Retrofit Project	103.5	-	103.5	102.6	103.5	-
<b>TOTAL</b>	<b>925.4</b>	<b>-</b>	<b>925.4</b>	<b>917.4</b>	<b>925.4</b>	<b>-</b>

*Note: Details may not sum to totals due to rounding effects. Capital Outlay Support and Capital Outlay have been combined.*

#### Other Completed Seismic Retrofit Projects Schedule Summary

Project	Actual Project Completion Date
Vincent Thomas Bridge Retrofit	May 2000
San Mateo-Hayward Bridge Retrofit	June 2000
Carquinez Bridge Retrofit	January 2002
San Diego-Coronado Bridge Retrofit	June 2002
Benicia-Martinez Bridge Retrofit	August 2002
SFOBB West Span Seismic Retrofit	June 2004

**Summary Status:** Construction has been completed on the above-listed projects. The Estimate at Completion amounts shown above include allowances for minor project closeout costs.

**Contract Issues:** None.

**Recent TBPOC Actions:** None.

## Toll Bridge Seismic Retrofit Program

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### *Other Toll Bridges*

#### **Dumbarton and Antioch Bridges**

The original design of the Dumbarton and Antioch Bridges were based on design criteria developed after the 1971 San Fernando Earthquake. In the early 1990's, Caltrans determined that these two structures had the seismic resistant features required by the post 1971 codes and were not likely to be vulnerable during a major seismic event. Since that time, Caltrans has pursued an aggressive seismic research program. Based on the results of this program, Caltrans significantly revised its seismic design practice in the late 1990's. Consistent with recommendations by the Caltrans Seismic Advisory Board, Caltrans regularly reassesses the seismic risk and performance of its bridges. Due to the tremendous changes in seismic design practice that have occurred since the design of the Dumbarton and Antioch bridges, a comprehensive assessment of the potential need and scope for seismic retrofit based on current knowledge is advised.

#### **Previous Reports**

A number of limited studies have been made of these bridges in the past. However, none of the studies have fully assessed the seismic performance of the structures under current standards.

#### **Vulnerability Studies**

In late 2004, Caltrans initiated vulnerability studies on the Dumbarton and Antioch bridges. The purpose of these studies was to determine if the bridges would meet current seismic performance standards. The studies were essentially completed in May 2005. They were not complete global analyses, but rather investigations of selected bents modeled as independent structures. The analyses were limited in scope and based on as-built plans and currently available geotechnical information. The superstructure response was not analyzed.

The Dumbarton and Antioch Bridges have many seismic resistant features, and the results of the vulnerability studies indicate that the bridges should perform well in a moderate seismic event. However, during a major seismic event, some potential vulnerabilities (summarized below) become apparent.

- ◆ Foundation response generally governs performance. The piles may plunge axially and potentially cause permanent footing rotations.
- ◆ Potentially large foundation displacements and rotations may result in deformations that can't be easily repaired.
- ◆ The capacity of the ductile columns is greater than those of the bent cap, pile cap, pile and superstructure. As a result, the latter elements may be damaged in a major event, especially if the foundation is retrofitted.

Given the limitations of the studies, there was insufficient evidence to conclusively determine the performance of the bridges during a maximum credible earthquake (MCE). While the Dumbarton and Antioch bridges may meet performance standards, a more comprehensive technical study is necessary to understand the performance of these structures during an MCE event. A study of this level is necessary to accurately determine the structures' response and to develop any necessary retrofit strategies. A comprehensive geotechnical study using the latest analysis techniques is likely necessary in order to perform this level of analysis.



### Sensitivity Analysis

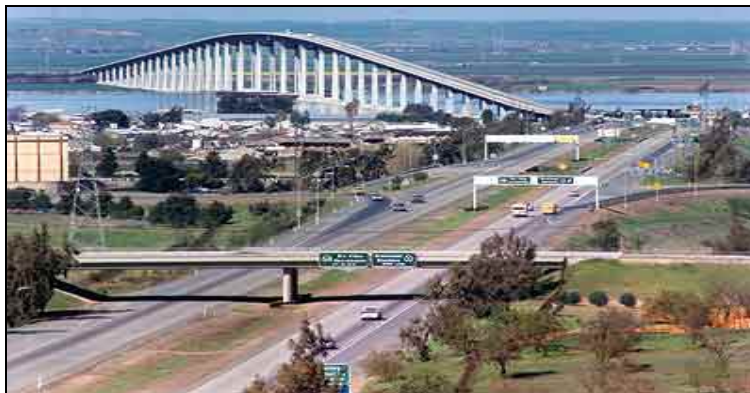
As a follow-up to the Vulnerability Study, a sensitivity analysis was completed on a single representative bent used in the Vulnerability Study (Bent 23 of the Dumbarton Bridge). The goal of the analysis is to determine the structural response associated with uncertainties in the geotechnical data. An envelope of soil conditions (best-case and worst-case scenarios) was used in the analysis. The results of the Sensitivity Analysis will be used to determine the scope and value of conducting further geotechnical studies.

The preliminary results from the sensitivity analysis indicate that the seismic response of the bridge is largely dependant on the soil conditions and that a comprehensive geotechnical investigation is essential for understanding the bridge's performance during a major seismic event. A work plan was developed to assess the extent of geotechnical work needed for a refined seismic analysis and to assess the required performance levels for each structure. Caltrans has completed the value analysis to scope the geotechnical investigation that will be required to complete the strategy. The final report was issued on July 24, 2006.

### Cost and Schedule

A preliminary cost estimate, schedule, and initial risk analysis have been developed to complete a comprehensive seismic analysis for each bridge. The preliminary estimate and schedule were developed as a baseline that assumed a complete geotechnical and geophysical investigation would be required at each bridge.

At its June 14, 2006 meeting, the Bay Area Toll Authority (BATA) approved the \$17.8 million that is necessary to proceed with this comprehensive seismic analysis. The BATA Oversight Committee selected Earth Mechanics as the Consultant for the Phase 1 Geotechnical Investigation at their September 13, 2006 meeting. BATA entered into a contract with the Consultant on September 26, 2006. It is expected that field work will commence in November 2006.



*Antioch Bridge*



*Dumbarton Bridge*





## PROJECT / CONTRACT REPORTS

### Regional Measure 1 Program

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#### New Benicia-Martinez Bridge Project Summary

- New Benicia-Martinez Bridge Contract
- Other Contracts and Related Project Activities

#### New Carquinez Bridge Project

#### Richmond-San Rafael Bridge Deck Overlay Project

#### Interstate 880 / State Route 92 Interchange Reconstruction

#### Other Completed Regional Measure 1 Projects

- San Mateo-Hayward Bridge Widening Project
- Richmond Parkway Project
- Bayfront Expressway Widening Project
- Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation Project

## Regional Measure 1 Program

### New Benicia-Martinez Bridge Project Summary

**Project Description:** The new Benicia-Martinez Bridge project constructs a new parallel bridge just east of the existing bridge. The project will include reconstructed interchanges to the north and south of the bridges and a new toll plaza and administration building in Martinez.

#### New Benicia-Martinez Bridge Project Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Capital Outlay Support	157.1	24.8	181.8	155.5	181.8	-
Right-of-Way and Others	20.4	(0.1)	20.3	12.2	20.3	-
Capital Outlay						-
New Bridge	672.0	107.3	779.3	693.5	779.3	-
I-680/I-780 Interchange Replacement	76.3	16.1	92.4	78.4	92.4	-
I-680/Marina Vista Interchange Reconstruction	51.5	8.1	59.6	54.6	59.6	-
New Toll Plaza	24.3	2.0	26.3	21.6	26.3	-
Existing Bridge & Interchange Modifications	17.2	10.9	28.1	-	28.1	-
Other	20.3	(1.3)	19.0	15.1	19.0	-
Project Reserve	20.8	35.3	56.2	-	56.2	0.0
<b>TOTAL</b>	<b>1,059.9</b>	<b>203.1</b>	<b>1,263.0</b>	<b>1,030.9</b>	<b>1,263.0</b>	<b>0.0</b>

Note: Details may not sum to totals due to rounding effects.

\* The budget and estimate at completion includes approximately \$33 million in non-toll bridge funds (Proposition 192 and SHOPP).

#### New Benicia-Martinez Bridge Project Schedule Summary

Contract	BATA Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
I-680/Marina Vista Interchange Reconstruction	March 2006	1	April 2006	April 2006	-
New Toll Plaza	June 2006	-	June 2006	October 2006	4
New Benicia-Martinez Bridge	December 2007	-	December 2007	December 2007	-
I-680/I-780 Interchange Replacement	December 2007	-	December 2007	February 2008	2
Open to Traffic	December 2007	-	December 2007	December 2007	-
Existing Bridge & Interchange Modifications	December 2009	-	December 2009	December 2009	-

\*See page 44 for an explanation of change in schedule forecast.

**Project Status:** All major construction projects necessary to open the bridge are currently in construction. Numerous foundation and superstructure issues have significantly delayed the new bridge contract. See the following contract detail pages for more information. Note that the remaining expenditures required on the “Right-of-Way and Others” category represent environmental permitting and mitigation. On December 21, 2005, BATA approved a budget increase resulting in a revised total of \$1,263.0 million.

### Project Issues

Issue	Mitigating Action
To open the bridge, Caltrans must coordinate opening and close-out activities among the different contractors that will be active on the project. These activities, including structural bridge and electrical tie-ins, have been complicated by the delays to the new bridge. As identified in Caltrans Risk Management Plan, these delays may also further escalate support and material costs on the project.	Based on the Caltrans Risk Management Plan, BATA has budgeted a program contingency to fund these potential increases. Caltrans is also completing a comprehensive schedule of all activities necessary to open the new bridge to traffic. As necessary, Caltrans will be negotiating with their contractors to resolve any final opening and close-out activities to open the bridge.

**Recent TBPOC Actions:** See the following contract detail pages for more information.

### Project Photographs



*Toll Plaza Canopy & the Courtyard Canopy*



*Toll Plaza Canopy Ceiling System*



*Operations Building & Courtyard looking west*

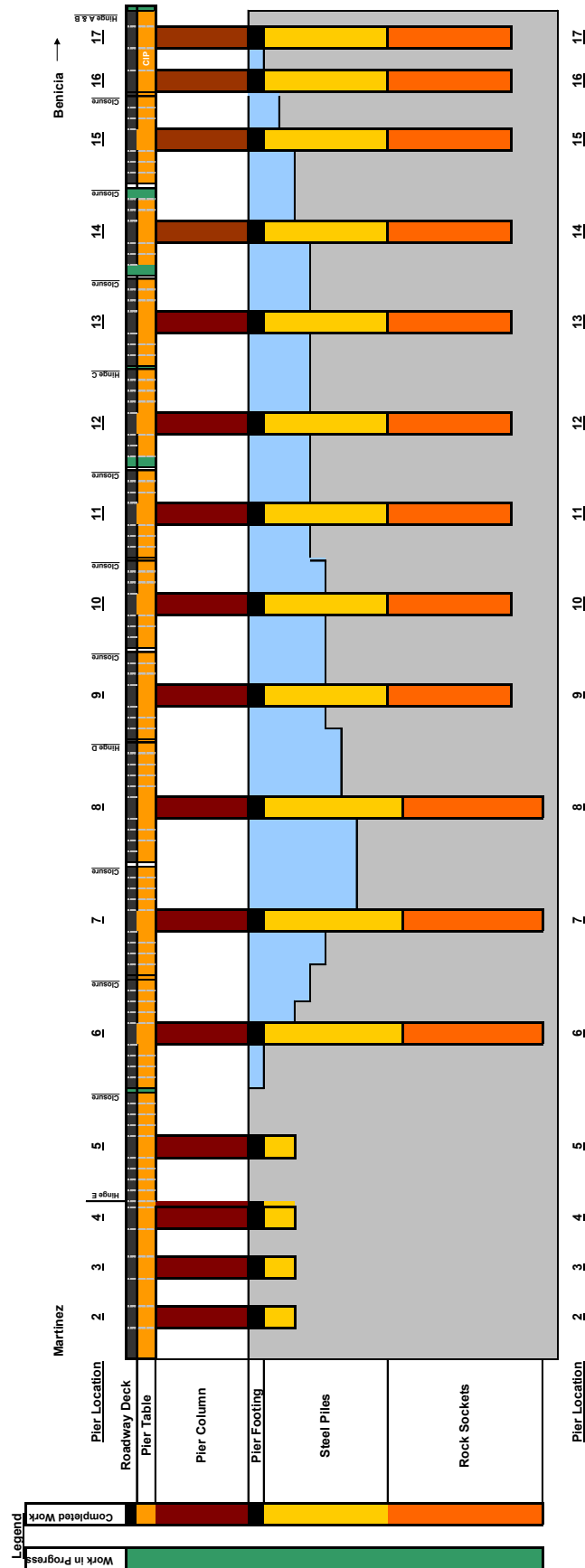


*Toll Plaza Administration Building*

**Project Photographs Cont'd.***New Benicia Bridge Alignment Looking North**KPC Concrete Batch Plant for the New Bridge Contract**Pier 13 Segment Construction**Connector Between Bridge 212 and 214**Pier 14 Segment Construction**Bridge 214 Below and Bridge 212 Overhead*



**New Benicia-Martinez Bridge Progress Diagram**  
October 2006



#### Notes:

1. Abutment 1 and Piers 2 through 5 are on land and have 66 piles. All piles, footings, columns and pier tables are complete. The superstructure is complete from Abutment 1 to Pier 4.
2. Piers 6 through 17 are located in the water and have 8 to 9 piles and rock sockets each - a total of 99. All 99 piles have been driven to their required depth and all 99 rock sockets have been installed.
3. Piers 6 through 17 have two-part footings. Piers 6, 16 and 17 have a cast-on-location tower section and a cast-in-place (CIP) upper section, which are lowered onto the piles. All three footings are complete. Piers 7 through 15 have a precast lower section that is set on the piles and a cast-in-place (CIP) upper section. All nine precast footings have been set and all CIP footings are complete.
4. All Stage 2 footings have been poured and stressed.
5. All pier tables are complete as of the end of May 2006.
6. Piers 4 through 15 have 344 cast-in-place cantilevered superstructure segments. Three-Hundred and Thirty-Five (336) segments have been cast to-date (38 at Pier 6, 38 at Pier 5, 38 at Pier 7, 40 at Pier 8, 29 including diaphragm A at Pier 9, 30 at Pier 10, 30 at Pier 11, 32 at Pier 12, 24 at Pier 13, 14 at Pier 14, and 24 at Pier 15). The cantilever segments are complete for the following piers: 5, 6, 7, 8, 9, 10, 11, 12, 13, and 15. Only 8 segments remain to be poured at Pier 14. Hinge E and D has been poured and Hinge C is currently in progress. Spans 6, 10 and 15 closures has been poured. Closure formwork will be hoisted at Span 5.
7. The cast-in-place on falsework superstructure south of Pier 4 is substantially complete, except for the bridge deck repair work, which are still to be done. The structure north of Pier 15 is substantially complete, including the lower hinge seats at Hinges A and B.

## Regional Measure 1 Program

**New Benicia-Martinez Bridge Project**► **NEW BENICIA-MARTINEZ BRIDGE CONTRACT**

**Contract Description:** The new bridge contract constructs a new cast-in-place segmentally constructed reinforced concrete bridge just east of the existing bridge. The new bridge will carry five lanes of eastbound I-680 traffic towards Benicia.

**New Benicia-Martinez Bridge Cost Summary (\$Millions)**

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
New Benicia-Martinez Bridge						
Capital Outlay Support	84.9	7.7	92.6	78.0	92.6	-
Capital Outlay Construction	672.0	107.3	779.3	693.5	779.3	-
<b>TOTAL</b>	<b>756.9</b>	<b>115.0</b>	<b>871.9</b>	<b>771.5</b>	<b>871.9</b>	<b>-</b>

Note: Details may not sum to totals due to rounding effects.

**New Benicia-Martinez Bridge Schedule Summary**

Contract	BATA Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
New Benicia-Martinez Bridge	December 2007	-	December 2007	December 2007	-

**Contract Status:** The contract is 89% complete based on the current revised schedule. All substructure and column work have been completed. Superstructure work continues throughout the project. For the cast-in-place portion of the bridge over the straits (Frames 2 and 3), all 11 of the pier tables have been completed, and segment construction has either been in progress or been completed on all 11 piers. Segment construction has been completed at Piers 5, 6, 7, 8, 9, 10, 11, 12, 13 and 15 and is on-going only at Pier 14 using the reusable form travelers. Through the end of September 2006, 336 of 344 (98%) segments have been completed. In order to maintain concrete temperature within the specified limits, the Contractor continues the use of nitrogen cooling by installing cooling tubes in the segments. Hinge E, connecting Frames 4 and 3 between Piers 4 and 5, and Hinge D, connecting Frames 2 and 3 between Piers 8 and 9, have been completed. Concrete closure pours on Spans 6, 10 and 15 of the New Benicia-Martinez Bridge, which links the individual piers together into a frame, have been completed. The closure formwork is scheduled to be hoisted into position at Span 5 on October 4, 2006. The last full cast-in-place concrete segment pour is still scheduled to be completed in October 2006, followed by additional closure pours.

For the cast-on-falsework structures (Frames 1 and 4), work on Frame 4 on the south side of the straits is complete. Polyester concrete patches will be needed on the bridge deck around Pier 3, due to poor quality of surface concrete after grinding. A repair plan submittal for the polyester concrete patches has been reviewed but will not be approved until additional information and testing can be performed. On Frame 1, the structure is complete and has been stressed. Work continued on falsework pile removal and installation of stem wall and overhang forms at the upper hinges. The possibility of not installing the tie-downs at Hinges A and B is under discussion due to the actual amount of movement of the short section of the hinge. Since the hinge will be poured in roughly 60 days, and the amount of additional movement expected is

small, confirmation that hinge tie-downs are not needed must be made and a corresponding credit will be applied accordingly. Other on-going project work includes work on the interior and exterior finishes at Piers 6, 8 and 11, installation of rails and maintenance travelers, and installation of pier table fixed platform beams at various piers.

**Contract Issues:** None

**Recent TBPOC Actions:** None

**Contract Photographs**



*I-680/I-780 Interchange Structural Connection to the New Bridge*



*Bridge 214 Looking East*



*Frame 1, Piers 15 & 14 Segment Construction*



*New Bridge Span as seen from the I-680/I-780 Interchange*



## Regional Measure 1 Program

### New Benicia-Martinez Bridge Project Summary

#### ► OTHER CONTRACTS AND RELATED PROJECT ACTIVITIES

**Contract Description:** Contracts related to the new Benicia-Martinez Bridge project involve the construction of a new toll plaza south of the new bridge in Contra Costa County with 17 toll booths, including two high-occupancy vehicle (HOV) bypass lanes, and the reconstruction of the I-680/Marina Vista Road and I-680/I-780 interchanges.

#### Other Contracts and Related Activities Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Capital Outlay Support	72.2	17.0	89.2	77.5	89.2	-
Right-of-Way and Environmental Mitigation	20.4	(0.1)	20.3	12.2	20.3	-
Capital Outlay Construction						-
I-680/I-780 Interchange Replacement	76.3	16.1	92.4	78.4	92.4	-
I-680/Marina Vista Interchange Reconstruction	51.5	8.1	59.6	54.6	59.6	-
New Toll Plaza	24.3	2.0	26.3	21.6	26.3	-
Existing Bridge & Interchange Modifications	17.2	10.9	28.1	-	28.1	-
Others	20.3	(1.3)	19.0	15.1	19.0	-
Total Capital Outlay Construction	189.6	35.8	225.4	169.7	225.4	-
<b>TOTAL</b>	<b>282.2</b>	<b>52.7</b>	<b>334.9</b>	<b>259.4</b>	<b>334.9</b>	<b>-</b>

Note: Details may not sum to totals due to rounding effects.

#### Other Contracts and Related Activities Schedule Summary

Contract	BATA Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
I-680/Marina Vista Interchange Reconstruction	March 2006	1	April 2006	April 2006	-
New Toll Plaza	June 2006	-	June 2006	October 2006	4
I-680/I-780 Interchange Replacement	December 2007	-	December 2007	February 2008	2
Existing Bridge & Interchange Modifications	December 2009	-	December 2009	December 2009	-

**Contract Status:**

**Toll Plaza and Administration Building:** The contract is 95% complete based on contractor payment. The Contractor is continuing work throughout the toll plaza area, including aluminum composite panel installation at the fascia and soffit locations above toll booths No. 1 thru No. 3, and terminations of the fiber optic cables for the security cameras at the canopy soffit. At the Operations Building, the Contractor continued electrical installation of horn strobes for the fire alarm system, card reader, and programming of the annunciator and fire alarm panels. Work continued at the Courtyard, which included lighting installation for the steel columns, layout work for the aluminum composite panel installation, and the programming of the HVAC Control Panel. Plant Establishment work continued. A number of notices of potential claim that have been filed by the Contractor remain to be resolved, but this will have no impact on the bridge Open-to-Traffic date. Contract completion is forecast for October 2006.

Consistent with BATA's Fastrak strategic plan, plans are progressing for the implementation of open road tolling at the toll plaza, which will involve the demolition of the toll booths. Contract documents for the Benicia-Martinez Open Road Tolling (ORT) work were transmitted to Caltrans on September 25, 2006. The documents which are to be consolidated with the traffic opening work documents prior to issuing to Contractors for cost proposal. During the final review of the documents, some inconsistencies were noted between the two documents that require minor adjustments. It is anticipated that these documents will be transmitted to the Contractors by October 4, 2006.

**I-680/I-780 Interchange:** The contract is approximately 94% complete based on the current revised schedule. To-date, all of the bridge structures are substantially complete, except for barrier rails and falsework removal on the Benicia-Martinez Approach Structure. The Contractor continues to remove the falsework over the Railroad. Bay Cities completed the work on the proposed detour road (CCO # 126), which will be used at the north end of the new bridge, prior to the new bridge traffic opening. Final electrical work for the new Benicia-Martinez Bridge and the interchange will not be completed until after the December 2007 open-to-traffic date.

**I-680/Marina Vista Interchange:** The contract is 100% complete as of April 28, 2006, and has been accepted by Caltrans. The Contractor received the Proposed Final Estimate (PFE) on August 14, 2006 for review and acceptance. Caltrans received the PFE letter from the Contractor on September 13, 2006, with a list of exceptions (claims) to the PFE. Caltrans, within 30 days after receipt of the letter, will prepare and issue to the Contractor a semi-final estimate that will resolve some exceptions. Those issues that are not resolved in the semi-final estimate shall be taken to arbitration at a later date.

**Wetland Mitigation:** The contract is 100% complete. The Contract Completion Acceptance (CCA) was submitted to Caltrans Headquarters for their approval on March 3, 2006. The Proposed Final Estimate (PFE) has been reviewed and accepted by the Contractor.

**Contract Issues**

Issue	Mitigating Action
As noted in the project's risk management plan, the Span 17 interface between the new bridge Contractor and the I-680/I-780 interchange Contractor may impact project cost and schedule.	The I-680/I-780 Contractor is expected to complete the span between the new bridge and the interchange in September 2006.

**Recent TBPOC Actions:** In September 2006, the TBPOC approved the commencement of negotiations on a CCO to cover ORT work and other work required to open the bridge to traffic.

## Regional Measure 1 Program

### New Carquinez Bridge Project

**Project Description:** The new Carquinez Bridge project involves constructing a new suspension bridge west of the existing bridges with four westbound lanes and a bicycle/pedestrian lane and demolishing the existing 1927 bridge.

#### New Carquinez Bridge Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
Capital Outlay Support	124.4	(1.1)	123.3	117.0	123.2	(0.1)
Capital Outlay Construction						
Replacement Bridge	253.3	4.0	257.3	256.9	257.3	-
South Interchange Reconstruction	73.9	-	73.9	71.9	73.9	-
Existing 1927 Bridge Demolition	35.2	-	35.2	19.1	35.2	-
Other	29.3	(0.7)	28.6	25.2	28.4	(0.2)
Project Reserve	12.1	(2.2)	9.9	-	10.2	0.3
<b>TOTAL</b>	<b>528.2</b>	<b>-</b>	<b>528.2</b>	<b>490.1</b>	<b>528.2</b>	<b>(0.0)</b>

Note: Details may not sum to totals due to rounding effects.

#### New Carquinez Bridge Schedule Summary

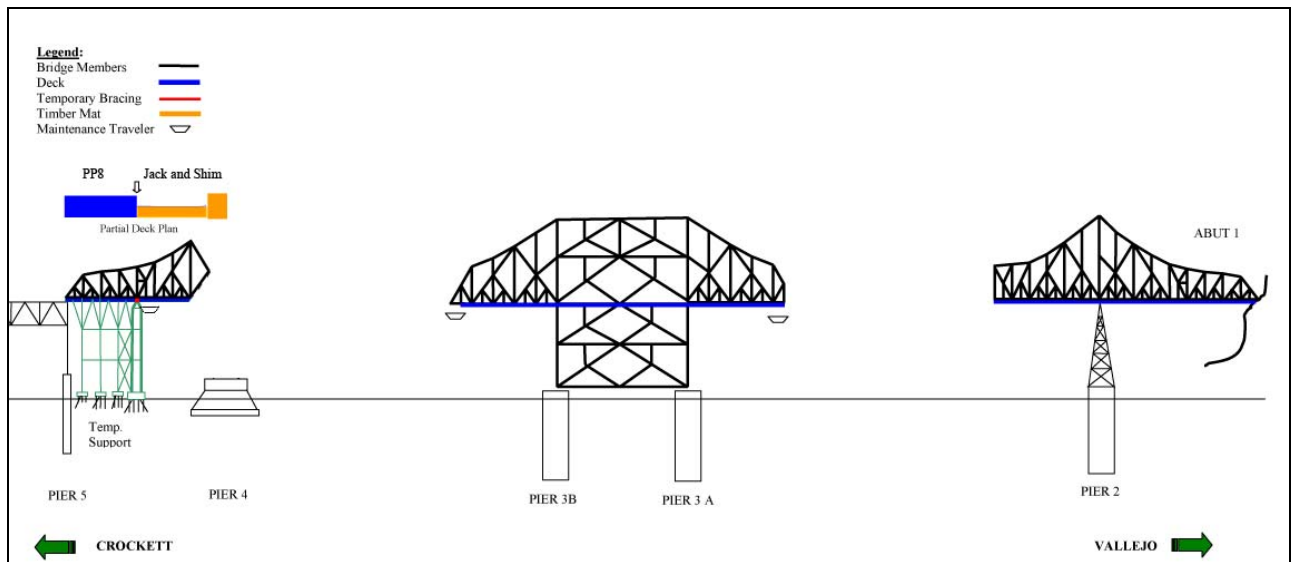
Contract	BATA Contract Completion Baseline (07/2005)	Approved Changes (Months)	Contract Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
New Carquinez Bridge	November 2003*	-	November 2003*	November 2003*	-
1927 Carquinez Bridge Demolition	December 2007	-	December 2007	December 2007	-
Landscaping	August 2011	-	August 2011	August 2011	-

\* The date shown is for the opening of the bridge to traffic.

**Project Status:** The new replacement bridge and all its approaches have been completed and opened to traffic. The demolition contract to remove the 1927 bridge is approximately 52% complete based on schedule. However, based on payment, this contract is 69% complete in that the greatest pay items involved the 1958 bridge approach slab replacement, which has been completed. To-date, Units 2, 3 and 7 of the 1927 bridge have been lowered and shipped from the project site. The forecast completion date of December 2007, as shown in last month's report, includes 67 days of executed contract change order extensions due to work suspension brought about by safety concerns with the unanticipated buckling of eye bars at Unit 3, a delay in the installation of temporary falsework for Unit 1, and 15 days of weather related delays. Tower 4, which is supporting Units 1 and 2, has been removed. Demolition work is continuing on Unit 1, and the removal of structural steel members from panel point 15 thru 18 has been completed.

**Project Issues:**

Issue	Mitigating Action
Contractor has not yet formally stated, in the form of a Time Impact Analysis (TIA), the schedule impact of the 3-month work suspension related to the unanticipated buckling of eye bars during the demolition of Units 3 and 7.	Caltrans will continue to communicate to the Contractor the need to submit the TIA. Caltrans will then evaluate it to establish a basis for negotiations. The resulting CCO should have no impact to the contract or overall project budget.

**Project Photographs**

1927 Carquinez Bridge Demolition Progress Status as of October 1, 2006



Carquinez Bridge Demolition



Carquinez Bridge Demolition

## Regional Measure 1 Program

### Richmond-San Rafael Bridge (RSRB) Deck Overlay Project

**Project Description:** Rehabilitate the existing concrete deck on the bridge, damaged due to traffic and exposure to a marine environment.

#### RSRB Deck Overlay Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	b	c	d = b + c	e	f	g = f - d
RSR Deck Overlay						
Capital Outlay Support	8.0	(3.5)	4.5	2.1	4.5	-
Capital Outlay Construction	16.9	3.6	20.5	1.9	20.5	-
Project Reserve	0.1	(0.1)	-	-	-	-
<b>TOTAL</b>	<b>25.0</b>	<b>-</b>	<b>25.0</b>	<b>4.0</b>	<b>25.0</b>	<b>-</b>

*Note: Details may not sum to totals due to rounding effects.*

#### RSRB Deck Overlay Schedule Summary

Project	BATA Project Completion Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
Richmond-San Rafael Bridge Deck Overlay Rehabilitation	January 2007	-	January 2007	January 2007	-

**Project Status:** Construction work started on August 2, 2006. The right shoulder on the lower deck and upper deck has been paved. Paving of lane #1 on the lower deck is almost complete. Closure of the middle lane on the lower deck is scheduled on October 1, 2006 and subsequent closure of the middle lane on the upper deck will be on October 6, 2006. Traffic Advisory Bulletin has been issued for the traffic shift. Media coverage has been planned for this Traffic Advisory. The project is on schedule to finish paving operations by Thanksgiving.

#### Project Issues:

Issue	Mitigating Action
During grinding operations it was discovered that the existing mortar thickness is more than ½-inch deep, which requires additional grinding and additional polyester concrete quantities.	Caltrans has requested additional funds for approval by BATA in order to process the Contract Change Order (CCO) to address this change.

#### Project Photographs



RSR Concrete Deck Overlay

## 1 Current Traffic Alignment

Upper Deck



Lower Deck



Two lanes, side by side, with shoulder.

## 2 Traffic Realignment, Phase I

Upper Deck

Open 24/7 Closed At Night Work Area



Lower Deck

Open 24/7 Closed At Night Work Area



No shoulder. During the day, two lanes will be open.  
At night, one lane will remain open.

# Richmond San Rafael Deck Overlay Project Phasing of Work

## 3 Traffic Realignment, Phase II

Upper Deck

Work Area Closed At Night Open 24/7



Lower Deck

Work Area Closed At Night Open 24/7



No shoulder. During the day, two lanes will be open.  
At night, one lane will remain open.

## 4 Traffic Realignment, Phase III

Upper Deck

Open 24/7 Work Area Closed At Night



Lower Deck

Open 24/7 Work Area Closed At Night



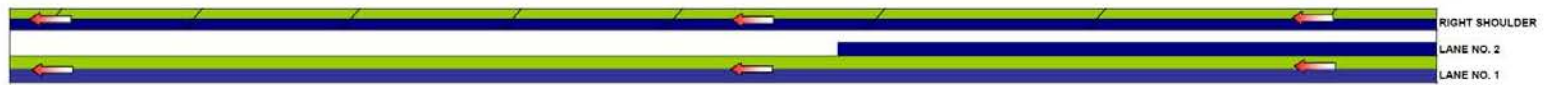
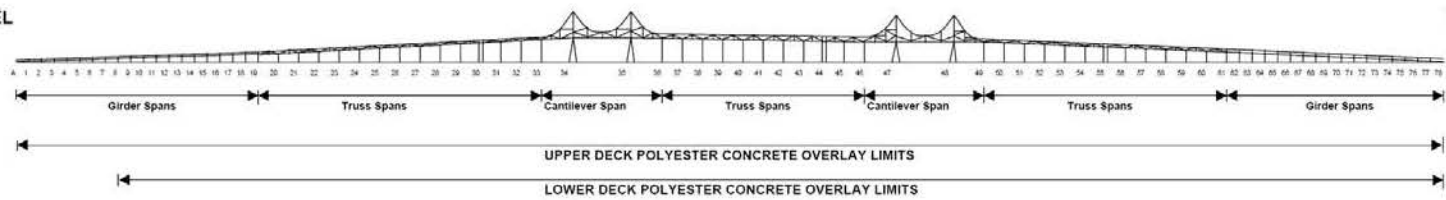
No shoulder. Two lanes open, one on each side of the bridge, with the middle area closed off. Two lanes will remain open during the day. At night, one lane will remain open.



**RICHMOND-SAN RAFAEL BRIDGE**  
**CONTRACT No. 04-041524**  
**(Progress as of 10-7-06)**

SAN RAFAEL

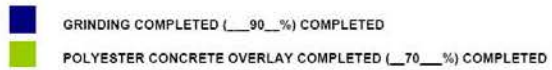
RICHMOND



**UPPER DECK**



**LOWER DECK**





## Regional Measure 1 Program

### Interstate 880/State Route 92 Interchange Reconstruction Project

**Project Description:** Modify the existing cloverleaf interchange to increase capacity and improve safety and traffic operations.

#### Interstate 880/State Route 92 Interchange Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	B	c	d = b + c	e	f	g = f - d
I-880/SR-92 Interchange Improvement						
Capital Outlay Support	28.8	-	28.8	29.5	55.4	26.6
Capital Outlay Construction	94.8	-	94.8	-	138.7	43.9
Capital Outlay Right-of-Way	9.9	-	9.9	8.0	12.5	2.6
Project Reserve	0.3	-	0.3	-	10.2	9.9
<b>TOTAL</b>	<b>133.8</b>	<b>-</b>	<b>133.8</b>	<b>37.5</b>	<b>216.8</b>	<b>83.0</b>

*Note: Details may not sum to totals due to rounding effects. \$9.6 million in ACTA funds included under Capital Outlay Construction. \$3.7 million included in Capital Outlay Construction for separate landscape contract.*

#### Interstate 880/State Route 92 Interchange Schedule Summary

Project	BATA Project Completion Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (09/2006)	Contract Complete Schedule Forecast (09/2006)	Schedule Variance (Months)
I-880/SR-92 Interchange Reconstruction	November 2010	-	November 2010	June 2011	7

**Project Status:** The 100% PS&E package was sent to Caltrans Headquarters Office Engineer on May 3, 2006. PS&E approval by Caltrans Headquarters Office Engineer is now expected to occur in mid-October 2006, due to additional review comments. Additional PG&E utility easements have been identified for the relocation of the six utility poles near Lindenwood Way. Work to relocate the utilities to an underground alignment is proceeding at Lindenwood Way. Caltrans continues to be in close contact with the utility companies to resolve any conflicts. Right-of-way acquisition is in progress. With the addition of the new easements, the right of way parcel count is now at 93 parcels. Of these, right-of-way from 73 parcels is under the State's control. The Water Quality permit was issued to Caltrans on August 31, 2006. A work plan was accepted by the Water Board for Caltrans to utilize wetland credits in Foster City as mitigation to the wetland impact. The contract is scheduled to be advertised by February 2007 and start construction in June 2007, assuming Right-of-Way Certification occurs by the end of December 2006. However, Caltrans is considering advancing contract advertisement through at-risk advertisement. The total cost forecast for the project has increased from \$196.3 million to \$216.8 million, primarily due to a higher construction capital estimate that was revised to incorporate bid prices received on the I-238 Widening Project. The forecast also assumes that right-of-way activities will be completed to allow the contract to advertise by the end of this year with a four-year construction duration. The forecast also includes nearly \$10.2 million for a project reserve.

**Project Issues:**

Issue	Mitigating Action
<p>The forecast schedule included an aggressive schedule for right-of-way acquisition that provided for 18 months to clear numerous parcels in the project area. Additional time will be required to negotiate with parcel owners and the railroad complete property acquisition.</p> <p>Bids received on the I-238 Widening contract indicates that the construction estimate may be higher than previously estimated.</p>	<p>Delays in right-of-way acquisitions are impacting the advertisement and construction of the project. BATA and Caltrans are reviewing methods to accelerate the right-of-way procurement and begin the project. Also, the construction contract will be advertised with an A+B specification, which could reduce the construction duration and partially recover the project schedule.</p> <p>Caltrans and BATA will perform a further in-depth review of the estimated costs of major contract items.</p>

## Regional Measure 1 Program

### Other Completed Regional Measure 1 (RM1) Projects

**Summary Description:** Other completed Regional Measure 1 projects are the following: (a) Widen the San Mateo-Hayward Bridge along its low-trestle section and its eastern approach, (b) Widen the Bayfront Expressway (SR 84) from the Dumbarton Bridge to the U.S. 101/Marsh Road interchange, (c) Construct an eastern approach (Richmond Parkway) between the Richmond-San Rafael Bridge and Interstate 80 near Pinole, and (d) Modify the U.S. 101/University Avenue interchange, (e) Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation Project.

#### Other Completed RM1 Projects Cost Summary (\$Millions)

Contract	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	Variance
a	B	c	d = b + c	e	f	g = f - d
San Mateo-Hayward Bridge Widening Project	217.8	-	217.8	208.6	211.9	(5.9)
Bayfront Expressway Widening Project	36.1	-	36.1	33.1	36.1	-
Richmond Parkway Project	5.9	-	5.9	3.9	5.9	-
U.S. 101/University Interchange	3.8	-	3.8	3.7	3.8	-
RSR Trestle, Fender, and Joint Rehabilitation	102.1	-	102.1	96.9	97.1	(5.0)
<b>TOTAL</b>	<b>365.7</b>	<b>-</b>	<b>365.7</b>	<b>346.2</b>	<b>354.8</b>	<b>(10.9)</b>

#### Schedule Summary

Project	Actual Project Completion Date
Richmond Parkway Project	May 2001
San Mateo-Hayward Bridge Widening Project	February 2003
Bayfront Expressway Widening Project	January 2004
U.S. 101/University Interchange	April 2004
Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation	August 2005

**Project Status:** Construction has been completed on the above listed contracts.

**Project Issues:** None.

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## APPENDICES

- A** Toll Bridge Seismic Retrofit Program:  
San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project Cost  
Detail
- B** Toll Bridge Seismic Retrofit Program Cost Detail
- C** Toll Bridge Seismic Retrofit Program Summary Schedule
- D** Regional Measure 1 Program Cost Detail
- E** Regional Measure 1 Program Summary Schedule

*\* Cost forecasts shown herein are as of June 30, 2006. Forecasts for the Monthly Reports are generally updated on a quarterly basis in conjunction with Risk Analysis assessments for the TBSRP Projects and the TBSRP Quarterly Reports.*

## Appendix A: Toll Bridge Seismic Retrofit Program (\$Millions)

**San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project Cost Detail**

Contract	EA Number	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	At-Completion Variance
a	b	c	d	e = c + d	f	g	h = g - e
<b>San Francisco-Oakland Bay Bridge East Span Replacement Project</b>							
<b>East Span - Skyway</b>	<b>01202X</b>						
Capital Outlay Support		197.0	-	197.0	145.9	197.0	-
Capital Outlay Construction		1,293.0	-	1,293.0	1,053.9	1,293.0	-
<b>Total</b>		1,490.0	-	1,490.0	1,199.8	1,490.0	-
<b>East Span - SAS Superstructure</b>	<b>0120FX</b>						
Capital Outlay Support		214.6	-	214.6	23.3	214.6	-
Capital Outlay Construction		1,753.7	-	1,753.7	138.2	1,767.4	13.7
<b>Total</b>		1,968.3	-	1,968.3	161.5	1,982.0	13.7
<b>East Span - SAS E2/T1 Foundations</b>	<b>0120EX</b>						
Capital Outlay Support		52.5	-	52.5	13.9	52.5	-
Capital Outlay Construction		313.5	-	313.5	160.5	313.5	-
<b>Total</b>		366.0	-	366.0	174.4	366.0	-
<b>SAS W2 Foundations</b>	<b>0120CX</b>						
Capital Outlay Support		10.0	-	10.0	9.2	10.0	-
Capital Outlay Construction		26.4	-	26.4	25.8	26.4	-
<b>Total</b>		36.4	-	36.4	35.0	36.4	-
<b>YBI Transition Structures</b>	<b>0120PX</b>						
Capital Outlay Support		78.7	-	78.7	10.2	78.7	-
Capital Outlay Construction		299.3	-	299.3	-	318.5	19.2
<b>Total</b>		378.0	-	378.0	10.2	397.2	19.2
<b>Oakland Touchdown (see notes below)</b>	<b>01204X</b>						
Capital Outlay Support		74.4	-	74.4	21.8	92.1	17.7
Capital Outlay Construction		283.8	-	283.8	-	302.1	18.3
<b>Total</b>		358.2	-	358.2	21.8	394.2	36.0
<b>* OTD Submarine Cable</b>	<b>0120K4</b>						
Capital Outlay Support					0.2	3.0	
Capital Outlay Construction					-	9.6	
<b>Total</b>					0.2	12.6	
<b>* OTD No. 1 (Westbound)</b>	<b>0120L4</b>						
Capital Outlay Support					1.7	49.9	
Capital Outlay Construction					-	226.1	
<b>Total</b>					1.7	276.0	
<b>* OTD No. 2 (Eastbound)</b>	<b>0120M4</b>						
Capital Outlay Support					0.2	15.8	
Capital Outlay Construction					-	62.0	
<b>Total</b>					0.2	77.8	
<b>* OTD Electrical Systems</b>	<b>0120N4</b>						
Capital Outlay Support					-	1.4	
Capital Outlay Construction					-	4.4	
<b>Total</b>					-	5.8	

Notes: Oakland Touchdown Cost-to-Date and Cost Forecast includes prior-to-split Capital Outlay Support Costs.

Note: Details may not sum to totals due to rounding effects.



## Appendix A: Toll Bridge Seismic Retrofit Program (\$Millions)

**San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project Cost Detail (Cont'd.)**

Contract	EA Number	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	At-Completion Variance
a	b	c	d	e = c + d	f	g	h = g - e
<b>YBI South/South Detour</b>	<b>0120RX</b>						
Capital Outlay Support		29.5	-	29.5	16.4	29.5	-
Capital Outlay Construction		131.9	-	131.9	34.5	169.1	37.2
<b>Total</b>		161.4	-	161.4	50.9	198.6	37.2
<b>Existing Bridge Demolition</b>	<b>01209X</b>						
Capital Outlay Support		79.7	-	79.7	0.2	79.7	-
Capital Outlay Construction		239.2	-	239.2	-	222.0	(17.2)
<b>Total</b>		318.9	-	318.9	0.2	301.7	(17.2)
<b>YBI/SAS Archeology</b>	<b>01207X</b>						
Capital Outlay Support		1.1	-	1.1	1.1	1.1	-
Capital Outlay Construction		1.1	-	1.1	1.1	1.1	-
<b>Total</b>		2.2	-	2.2	2.2	2.2	-
<b>YBI - USCG Road Relocation</b>	<b>0120QX</b>						
Capital Outlay Support		3.0	-	3.0	2.7	3.0	-
Capital Outlay Construction		3.0	-	3.0	2.8	3.0	-
<b>Total</b>		6.0	-	6.0	5.5	6.0	-
<b>YBI - Substation and Viaduct</b>	<b>0120GX</b>						
Capital Outlay Support		6.5	-	6.5	6.4	6.5	-
Capital Outlay Construction		11.6	-	11.6	11.3	11.6	-
<b>Total</b>		18.1	-	18.1	17.7	18.1	-
<b>Oakland Geofill</b>	<b>01205X</b>						
Capital Outlay Support		2.5	-	2.5	2.5	2.5	-
Capital Outlay Construction		8.2	-	8.2	8.2	8.2	-
<b>Total</b>		10.7	-	10.7	10.7	10.7	-
<b>Pile Installation Demonstration Project</b>	<b>01208X</b>						
Capital Outlay Support		1.8	-	1.8	1.8	1.8	-
Capital Outlay Construction		9.2	-	9.2	9.2	9.2	-
<b>Total</b>		11.0	-	11.0	11.0	11.0	-
<b>Stormwater Treatment Measures</b>	<b>0120JX</b>						
Capital Outlay Support		6.0	-	6.0	5.2	6.0	-
Capital Outlay Construction		15.0	-	15.0	2.7	15.0	-
<b>Total</b>		21.0	-	21.0	7.9	21.0	-
<b>Right-of-Way and Environmental Mitigation</b>	<b>0120X9</b>						
Capital Outlay Support		-	-	-	-	-	-
Capital Outlay & Right-of-Way		72.4	-	72.4	38.8	72.4	-
<b>Total</b>		72.4	-	72.4	38.8	72.4	-
	<b>04343X &amp; 04300X</b>						
<b>Sunk Cost - Existing East Span Retrofit</b>							
Capital Outlay Support		39.5	-	39.5	39.5	39.5	-
Capital Outlay Construction		30.8	-	30.8	30.8	30.8	-
<b>Total</b>		70.3	-	70.3	70.3	70.3	-
<b>Other Capital Outlay Support</b>							
Environmental Phase		97.7	-	97.7	97.7	97.7	-
Pre-Split Project Expenditures		44.9	-	44.9	44.9	44.9	-
Non-project Specific Costs		20.0	-	20.0	3.2	20.0	-
<b>Total</b>		162.6	-	162.6	145.8	162.6	-
<b>Subtotal Capital Outlay Support</b>		959.4	-	959.4	445.9	977.1	17.7
<b>Subtotal Capital Outlay Construction</b>		4,492.1	-	4,492.1	1,517.8	4,563.3	71.2
<b>Other Budgeted Capital</b>		35.1	-	35.1	1.5	11.0	(24.1)
<b>Total SFOBB East Span Replacement Project</b>		<b>5,486.6</b>	<b>-</b>	<b>5,486.6</b>	<b>1,965.2</b>	<b>5,551.4</b>	<b>64.8</b>

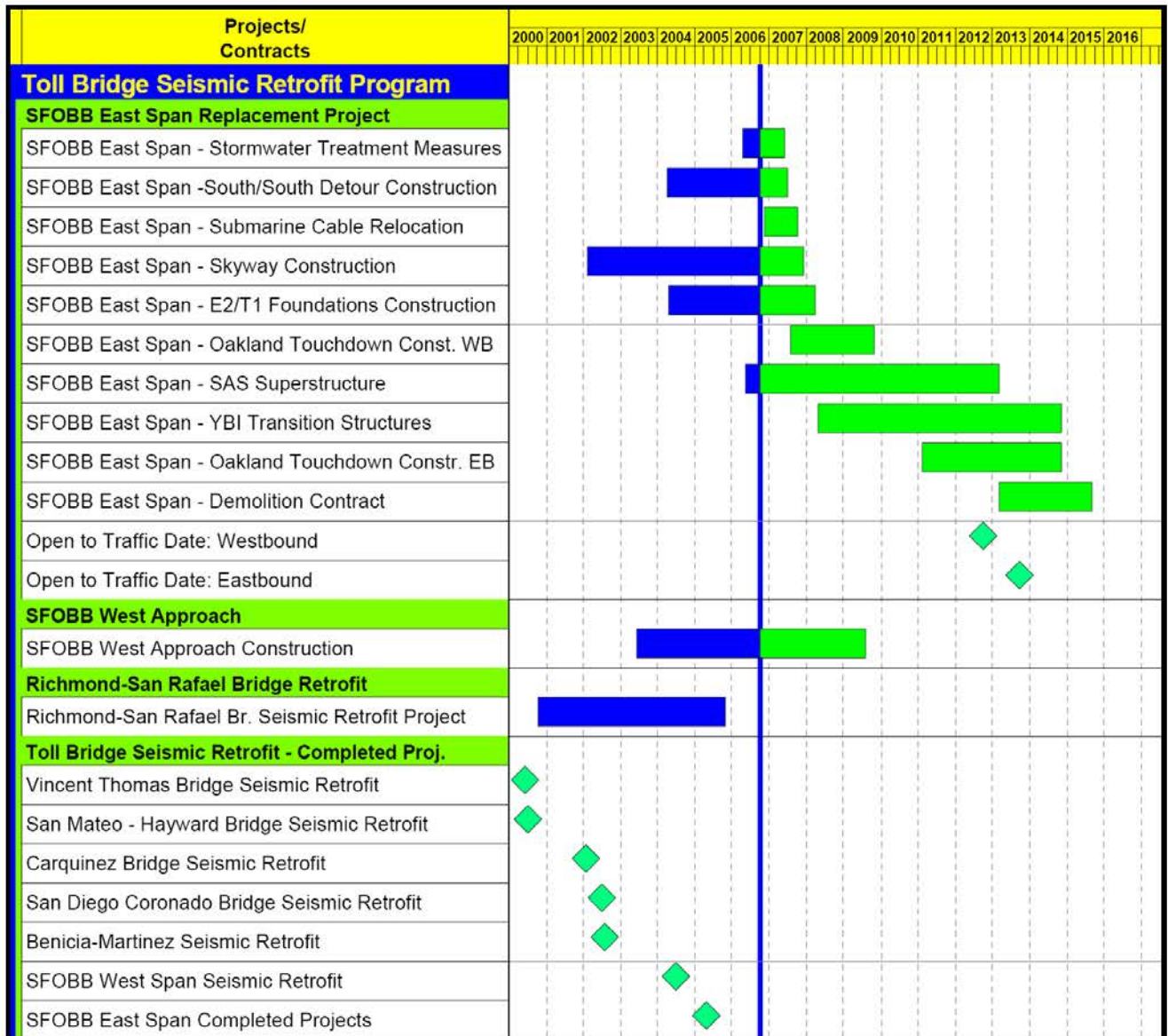
Note: Details may not sum to totals due to rounding effects.

## Appendix B: Toll Bridge Seismic Retrofit Program Cost Detail (\$Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (09/2006)	Cost To Date (08/2006)	Cost Forecast (09/2006)	At-Completion Variance
a	c	d	e = c + d	f	g	h = g - e
<b>SFOBB East Span Replacement Project</b>						
Capital Outlay Support	959.4	-	959.4	445.8	977.1	17.7
Capital Outlay Construction	4,492.1	-	4,492.1	1,517.9	4,563.3	71.2
Other Budgeted Capital	35.1	-	35.1	1.5	11.0	(24.1)
<b>Total</b>	<b>5,486.6</b>	<b>-</b>	<b>5,486.6</b>	<b>1,965.2</b>	<b>5,551.4</b>	<b>64.8</b>
<b>SFOBB West Approach Replacement</b>						
Capital Outlay Support	120.0	-	120.0	81.9	120.0	-
Capital Outlay Construction	309.0	-	309.0	203.0	309.0	-
<b>Total</b>	<b>429.0</b>	<b>-</b>	<b>429.0</b>	<b>284.9</b>	<b>429.0</b>	<b>-</b>
<b>SFOBB West Span Retrofit</b>						
Capital Outlay Support	75.0	-	75.0	74.8	75.0	-
Capital Outlay Construction	232.9	-	232.9	226.2	232.9	-
<b>Total</b>	<b>307.9</b>	<b>-</b>	<b>307.9</b>	<b>301.0</b>	<b>307.9</b>	<b>-</b>
<b>Richmond-San Rafael Bridge Retrofit</b>						
Capital Outlay Support	134.0	-	134.0	125.5	127.0	(7.0)
Capital Outlay Construction	780.0	-	780.0	663.8	698.0	(82.0)
<b>Total</b>	<b>914.0</b>	<b>-</b>	<b>914.0</b>	<b>789.3</b>	<b>825.0</b>	<b>(89.0)</b>
<b>Benicia-Martinez Bridge Retrofit</b>						
Capital Outlay Support	38.1	-	38.1	38.1	38.1	-
Capital Outlay Construction	139.7	-	139.7	139.7	139.7	-
<b>Total</b>	<b>177.8</b>	<b>-</b>	<b>177.8</b>	<b>177.8</b>	<b>177.8</b>	<b>-</b>
<b>Carquinez Bridge Retrofit</b>						
Capital Outlay Support	28.7	-	28.7	28.8	28.7	-
Capital Outlay Construction	85.5	-	85.5	85.4	85.5	-
<b>Total</b>	<b>114.2</b>	<b>-</b>	<b>114.2</b>	<b>114.2</b>	<b>114.2</b>	<b>-</b>
<b>San Mateo-Hayward Bridge Retrofit</b>						
Capital Outlay Support	28.1	-	28.1	28.1	28.1	-
Capital Outlay Construction	135.4	-	135.4	135.3	135.4	-
<b>Total</b>	<b>163.5</b>	<b>-</b>	<b>163.5</b>	<b>163.4</b>	<b>163.5</b>	<b>-</b>
<b>Vincent Thomas Bridge Retrofit (Los Angeles)</b>						
Capital Outlay Support	16.4	-	16.4	16.4	16.4	-
Capital Outlay Construction	42.1	-	42.1	42.0	42.1	-
<b>Total</b>	<b>58.5</b>	<b>-</b>	<b>58.5</b>	<b>58.4</b>	<b>58.5</b>	<b>-</b>
<b>San Diego-Coronado Bridge Retrofit</b>						
Capital Outlay Support	33.5	-	33.5	33.2	33.5	-
Capital Outlay Construction	70.0	-	70.0	69.4	70.0	-
<b>Total</b>	<b>103.5</b>	<b>-</b>	<b>103.5</b>	<b>102.6</b>	<b>103.5</b>	<b>-</b>
<b>Subtotal Capital Outlay Support</b>	<b>1,433.2</b>	<b>-</b>	<b>1,433.2</b>	<b>872.6</b>	<b>1,443.9</b>	<b>10.7</b>
<b>Subtotal Capital Outlay</b>	<b>6,286.7</b>	<b>-</b>	<b>6,286.7</b>	<b>3,082.7</b>	<b>6,275.9</b>	<b>(10.8)</b>
<b>Subtotal Other Budgeted Capital</b>	<b>35.1</b>	<b>-</b>	<b>35.1</b>	<b>1.5</b>	<b>11.0</b>	<b>(24.1)</b>
<b>Miscellaneous Program Costs</b>	<b>30.0</b>	<b>-</b>	<b>30.0</b>	<b>24.8</b>	<b>30.0</b>	<b>-</b>
<b>Subtotal Toll Bridge Seismic Retrofit Program</b>	<b>7,785.0</b>	<b>-</b>	<b>7,785.0</b>	<b>3,981.6</b>	<b>7,760.8</b>	<b>(24.2)</b>
<b>Program Contingency</b>	<b>900.0</b>	<b>-</b>	<b>900.0</b>	<b>-</b>	<b>924.2</b>	<b>24.2</b>
<b>Total Toll Bridge Seismic Retrofit Program</b>	<b>8,685.0</b>	<b>-</b>	<b>8,685.0</b>	<b>3,981.6</b>	<b>8,685.0</b>	<b>-</b>

Note: Details may not sum to totals due to rounding effects.

## Appendix C: Toll Bridge Seismic Retrofit Program Summary Schedule



## Appendix D: Regional Measure 1 Program Cost Detail (\$Millions)

Project	EA Number	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (08/2006)	Cost To Date (08/2006)	Cost Forecast (08/2006)	At-Completion Variance
a	b	c	d	e = c + d	f	g	h = g - e
<b>New Benicia-Martinez Bridge Project</b>							
<b>New Bridge</b>	<b>00603_</b>						
Capital Outlay Support		84.9	7.7	92.6	78.0	92.6	-
Capital Outlay Construction				-			-
BATA Funding		661.9	107.3	769.2	679.6	769.2	-
Non-BATA Funding		10.1	-	10.1	13.9	10.1	-
Subtotal		672.0	107.3	779.3	693.5	779.3	-
<b>Total</b>		756.9	115.0	871.9	771.5	871.9	-
<b>I-680/I-780 Interchange Reconstruction</b>							
<b>I-680/I-780 Interchange Reconstruction</b>	<b>00606_</b>						
Capital Outlay Support							
BATA Funding		24.9	4.0	28.9	27.4	28.9	-
Non-BATA Funding		1.4	5.1	6.5	5.5	6.5	-
Subtotal		26.3	9.1	35.4	32.9	35.4	-
Capital Outlay Construction							
BATA Funding		54.7	16.1	70.8	63.0	70.8	-
Non-BATA Funding		21.6	-	21.6	15.4	21.6	-
Subtotal		76.3	16.1	92.4	78.4	92.4	-
<b>Total</b>		102.6	25.2	127.8	111.3	127.8	-
<b>I-680/Marina Vista Interchange Reconstruction</b>							
<b>I-680/Marina Vista Interchange Reconstruction</b>	<b>00605_</b>						
Capital Outlay Support		18.3	1.2	19.5	19.5	19.5	-
Capital Outlay Construction		51.5	8.1	59.6	54.6	59.6	-
<b>Total</b>		69.8	9.3	79.1	74.1	79.1	-
<b>New Toll Plaza and Administration Building</b>							
<b>New Toll Plaza and Administration Building</b>	<b>00604_</b>						
Capital Outlay Support		11.9	3.3	15.2	14.5	15.2	-
Capital Outlay Construction		24.3	2.0	26.3	21.6	26.3	-
<b>Total</b>		36.2	5.3	41.5	36.1	41.5	-
<b>Existing Bridge &amp; Interchange Modifications</b>							
<b>Existing Bridge &amp; Interchange Modifications</b>	<b>0060A_</b>						
Capital Outlay Support		4.3	5.7	10.0	4.3	10.0	-
Capital Outlay Construction		17.2	10.9	28.1	-	28.1	-
<b>Total</b>		21.5	16.6	38.1	4.3	38.1	-
<b>Other Contracts</b>							
<b>Other Contracts</b>	<b>See note below</b>						
Capital Outlay Support		11.4	(2.3)	9.1	6.3	9.1	-
Capital Outlay Construction		20.3	(1.3)	19.0	15.1	19.0	-
Capital Outlay Right-of-Way		20.4	(0.1)	20.3	12.2	20.3	-
<b>Total</b>		52.1	(3.7)	48.4	33.6	48.4	-
<b>Subtotal BATA Capital Outlay Support</b>		155.7	19.7	175.3	150.0	175.3	-
<b>Subtotal BATA Capital Outlay Construction</b>		829.9	143.1	973.0	833.9	973.0	-
<b>Subtotal Capital Outlay Right-of-Way</b>		20.4	(0.1)	20.3	12.2	20.3	-
<b>Subtotal Non-BATA Capital Outlay Support</b>		1.4	5.1	6.5	5.5	6.5	-
<b>Subtotal Non-BATA Capital Outlay Construction</b>		31.7	-	31.7	29.3	31.7	-
<b>Project Reserves</b>		20.8	35.3	56.2	-	56.2	-
<b>Total New Benicia-Martinez Bridge Project</b>		<b>1,059.9</b>	<b>203.1</b>	<b>1,263.0</b>	<b>1,030.9</b>	<b>1,263.0</b>	<b>-</b>

Notes: Includes EA's 00601\_, 00608\_, 00609\_, 0060A\_, 0060C\_, 0060E\_, 0060F\_, 0060G\_, and 0060H\_ and all Project Right-of-Way

Note: Details may not sum to totals due to rounding effects.

## Appendix D: Regional Measure 1 Program Cost Detail (\$Millions)

(Cont'd.)

Project	EA Number	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (08/2006)	Cost To Date (08/2006)	Cost Forecast (08/2006)	At-Completion Variance
a	b	c	d	e = c + d	f	g	h = g - e
<b>Carquinez Bridge Replacement Project</b>							
<b>New Bridge</b>	<b>01301_</b>						
Capital Outlay Support		60.5	(0.3)	60.2	60.1	60.2	-
Capital Outlay Construction		253.3	4.0	257.3	256.9	257.3	-
<b>Total</b>		<b>313.8</b>	<b>3.7</b>	<b>317.5</b>	<b>317.0</b>	<b>317.5</b>	<b>-</b>
<b>Crockett Interchange Reconstruction</b>	<b>01305_</b>						
Capital Outlay Support		32.0	(0.1)	31.9	31.9	31.9	-
Capital Outlay Construction		73.9	-	73.9	71.9	73.9	-
<b>Total</b>		<b>105.9</b>	<b>(0.1)</b>	<b>105.8</b>	<b>103.8</b>	<b>105.8</b>	<b>-</b>
<b>Existing 1927 Bridge Demolition</b>	<b>01309_</b>						
Capital Outlay Support		16.1	-	16.1	10.3	16.0	(0.1)
Capital Outlay Construction		35.2	-	35.2	19.1	35.2	-
<b>Total</b>		<b>51.3</b>	<b>-</b>	<b>51.3</b>	<b>29.4</b>	<b>51.2</b>	<b>(0.1)</b>
<b>Other Contracts</b>	<b>See note below</b>						
Capital Outlay Support		15.8	(0.7)	15.1	14.7	15.1	-
Capital Outlay Construction		18.8	(0.7)	18.1	15.3	17.9	(0.2)
Capital Outlay Right-of-Way		10.5	-	10.5	9.9	10.5	-
<b>Total</b>		<b>45.1</b>	<b>(1.4)</b>	<b>43.7</b>	<b>39.9</b>	<b>43.5</b>	<b>(0.2)</b>
<b>Subtotal BATA Capital Outlay Support</b>		<b>124.4</b>	<b>(1.1)</b>	<b>123.3</b>	<b>117.0</b>	<b>123.2</b>	<b>(0.1)</b>
<b>Subtotal BATA Capital Outlay Construction</b>		<b>381.2</b>	<b>3.3</b>	<b>384.5</b>	<b>363.2</b>	<b>384.3</b>	<b>(0.2)</b>
<b>Subtotal Capital Outlay Right-of-Way</b>		<b>10.5</b>	<b>-</b>	<b>10.5</b>	<b>9.9</b>	<b>10.5</b>	<b>-</b>
<b>Project Reserves</b>		<b>12.1</b>	<b>(2.2)</b>	<b>9.9</b>	<b>-</b>	<b>10.2</b>	<b>0.3</b>
<b>Total Carquinez Bridge Replacement Project</b>		<b>528.2</b>	<b>-</b>	<b>528.2</b>	<b>490.1</b>	<b>528.2</b>	<b>-</b>

**Notes:**

Other Contracts includes EA's 01302\_, 01303\_, 01304\_, 01306\_, 01307\_, 01308\_, 0130A\_, 0130C\_, 0130D\_, 0130F\_, 0130G\_, 0130H\_, 0130J\_, 00453\_, 00493\_, 04700\_, 00607\_, 2A270\_, and 29920\_ and all Project Right-of-Way

Note: Details may not sum to totals due to rounding effects.

## Appendix D: Regional Measure 1 Program Cost Detail (\$Millions) (Cont'd.)

Project	EA Number	BATA Budget (07/2005)	Approved Changes	Current Approved Budget (08/2006)	Cost To Date (08/2006)	Cost Forecast (08/2006)	At-Completion Variance
a	b	c	d	e = c + d	f	g	h = g - e
<b>Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation</b>	<b>See note <sup>1</sup> below</b>						
Capital Outlay Support							
BATA Funding		2.2	-	2.2	1.4	2.2	-
Non-BATA Funding		8.6	-	8.6	10.4	10.4	1.8
Subtotal		10.8	-	10.8	11.8	12.6	1.8
Capital Outlay Construction							
BATA Funding		40.2	-	40.2	33.5	33.4	(6.8)
Non-BATA Funding		51.1	-	51.1	51.6	51.1	-
Subtotal		91.3	-	91.3	85.1	84.5	(6.8)
Project Reserves		-	-	-	-	-	-
<b>Total</b>		<b>102.1</b>	<b>-</b>	<b>102.1</b>	<b>96.9</b>	<b>97.1</b>	<b>(5.0)</b>
<b>Richmond-San Rafael Bridge Deck Overlay Rehabilitation</b>	<b>0415U_</b>						
Capital Outlay Support							
BATA Funding		4.0	0.5	4.5	2.1	4.5	-
Non-BATA Funding		4.0	(4.0)	-	-	-	-
Subtotal		8.0	(3.5)	4.5	2.1	4.5	-
Capital Outlay Construction		16.9	3.6	20.5	1.9	20.5	-
Project Reserves		0.1	(0.1)	-	-	-	-
<b>Total</b>		<b>25.0</b>	<b>-</b>	<b>25.0</b>	<b>4.0</b>	<b>25.0</b>	<b>-</b>
<b>Richmond Parkway Project (RM 1 Share Only)</b>	<b>Non-Caltrans</b>						
Capital Outlay Support		-	-	-	-	-	-
Capital Outlay Construction		5.9	-	5.9	3.9	5.9	-
<b>Total</b>		<b>5.9</b>	<b>-</b>	<b>5.9</b>	<b>3.9</b>	<b>5.9</b>	<b>-</b>
<b>San Mateo-Hayward Bridge Widening</b>	<b>See note <sup>2</sup> below</b>						
Capital Outlay Support		34.6	(0.2)	34.4	34.1	34.4	-
Capital Outlay Construction		180.2	(1.1)	179.1	174.0	176.2	(2.9)
Capital Outlay Right-of-Way		1.5	-	1.5	0.5	0.6	(0.9)
Project Reserves		1.5	1.3	2.8	-	0.7	(2.1)
<b>Total</b>		<b>217.8</b>	<b>-</b>	<b>217.8</b>	<b>208.6</b>	<b>211.9</b>	<b>(5.9)</b>
<b>I-880/SR-92 Interchange Reconstruction</b>	<b>EA's 23317_, 01601_, and 01602_</b>						
Capital Outlay Support		28.8	-	28.8	29.5	51.7	22.9
Capital Outlay Construction							
BATA Funding		85.2	-	85.2	-	112.9	27.7
Non-BATA Funding		9.6	-	9.6	-	9.6	-
Subtotal		94.8	-	94.8	-	122.5	27.7
Capital Outlay Right-of-Way		9.9	-	9.9	8.0	12.4	2.5
Project Reserves		0.3	-	0.3	-	9.7	9.4
<b>Total</b>		<b>133.8</b>	<b>-</b>	<b>133.8</b>	<b>37.5</b>	<b>196.3</b>	<b>62.5</b>
<b>Bayfront Expressway Widening</b>	<b>EA's 00487_, 01511_, and 01512_</b>						
Capital Outlay Support		8.6	(0.3)	8.3	8.1	8.3	-
Capital Outlay Construction		26.5	-	26.5	24.8	26.5	-
Capital Outlay Right-of-Way		0.2	-	0.2	0.2	0.2	-
Project Reserves		0.8	0.3	1.1	-	1.1	-
<b>Total</b>		<b>36.1</b>	<b>-</b>	<b>36.1</b>	<b>33.1</b>	<b>36.1</b>	<b>-</b>
<b>US 101/University Avenue Interchange Modification</b>	<b>Non-Caltrans</b>						
Capital Outlay Support		-	-	-	-	-	-
Capital Outlay Construction		3.8	-	3.8	3.7	3.8	-
<b>Total</b>		<b>3.8</b>	<b>-</b>	<b>3.8</b>	<b>3.7</b>	<b>3.8</b>	<b>-</b>
<b>Subtotal BATA Capital Outlay Support</b>		<b>358.3</b>	<b>18.6</b>	<b>376.8</b>	<b>342.2</b>	<b>399.6</b>	<b>22.8</b>
<b>Subtotal BATA Capital Outlay Construction</b>		<b>1,569.8</b>	<b>148.9</b>	<b>1,718.7</b>	<b>1,438.9</b>	<b>1,736.5</b>	<b>17.8</b>
<b>Subtotal Capital Outlay Right-of-Way</b>		<b>42.5</b>	<b>(0.1)</b>	<b>42.4</b>	<b>30.8</b>	<b>44.0</b>	<b>1.6</b>
<b>Subtotal Non-BATA Capital Outlay Support</b>		<b>14.0</b>	<b>1.1</b>	<b>15.1</b>	<b>15.9</b>	<b>16.9</b>	<b>1.8</b>
<b>Subtotal Non-BATA Capital Outlay Construction</b>		<b>92.4</b>	<b>-</b>	<b>92.4</b>	<b>80.9</b>	<b>92.4</b>	<b>-</b>
<b>Project Reserves</b>		<b>35.6</b>	<b>34.6</b>	<b>70.3</b>	<b>-</b>	<b>77.9</b>	<b>7.6</b>
<b>Total RM1 Program</b>		<b>2,112.6</b>	<b>203.1</b>	<b>2,315.7</b>	<b>1,908.7</b>	<b>2,367.3</b>	<b>51.6</b>

## Notes:

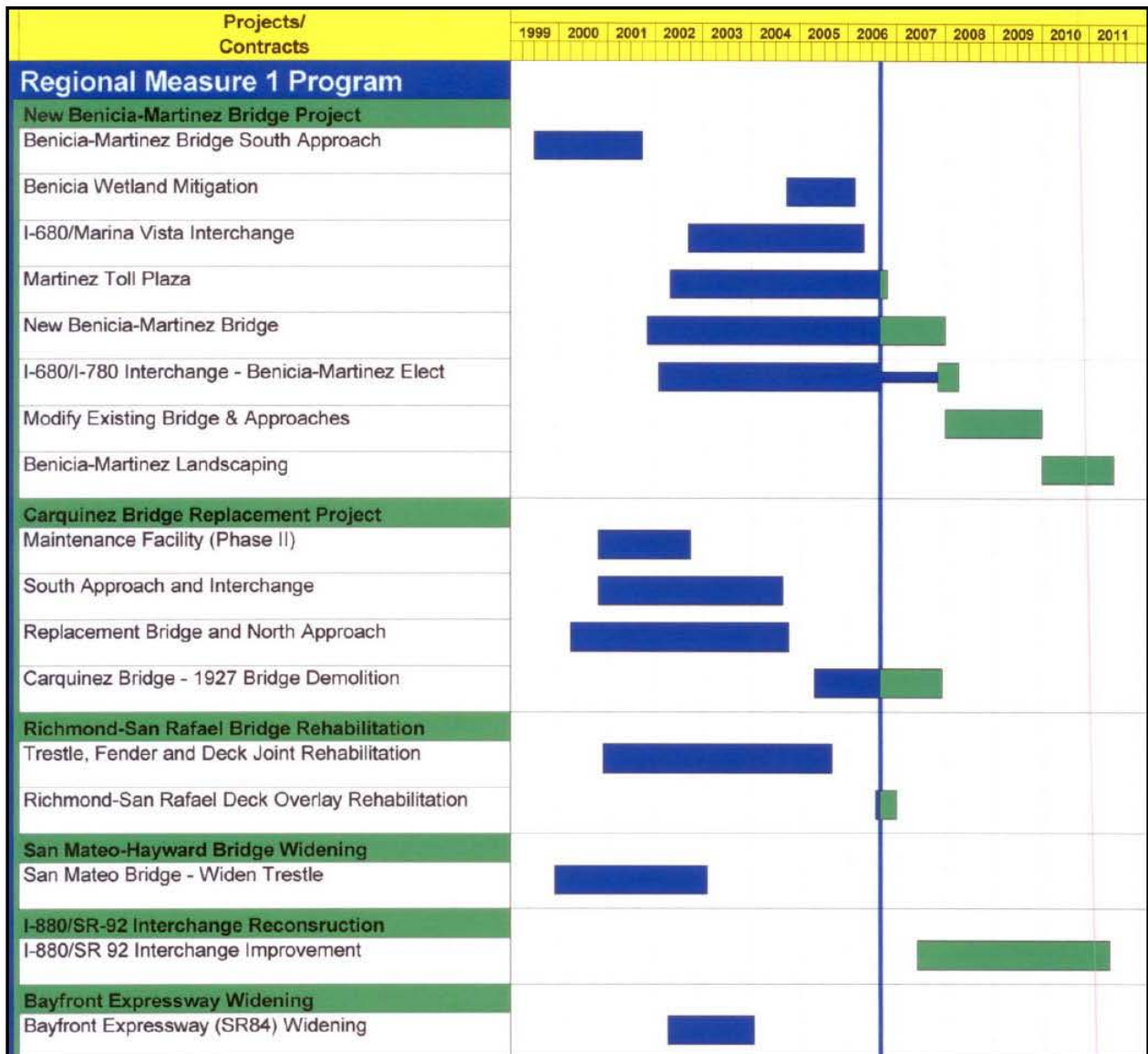
<sup>1</sup> Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation Includes Non-TBSRA Expenses for EA 0438U\_ and 04157\_

<sup>2</sup> San Mateo-Hayward Bridge Widening Includes EA's 00305\_, 04501\_, 04502\_, 04503\_, 04504\_, 04505\_, 04506\_, 04507\_, 04508\_, 04509\_, 27740\_, 27790\_, 04860\_

Note: Details may not sum to totals due to rounding effects.



## Appendix E: Regional Measure 1 Program Summary Schedule



## Appendix F: Glossary of Terms

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**AB144/SB 66 BUDGET:** the planned allocation of resources for the Toll Bridge Seismic Retrofit Program, or subordinate projects or contracts, as provided in Assembly Bill 144 and Senate Bill 66, signed into law by Governor Schwarzenegger on July 18, 2005 and September 29, 2005, respectively.

**BATA BUDGET:** the planned allocation of resources for the Regional Measure 1 Program, or subordinate projects or contracts as authorized by the Bay Area Toll Authority as of June 2005.

**APPROVED CHANGES:** for cost, changes to the AB144/SB 66 Budget or BATA Budget as approved by the Bay Area Toll Authority Commission. For schedule, changes to the AB 144/SB 66 Project Complete Baseline approved by the Toll Bridge Program Oversight Committee, or changes to the BATA Project Complete Baseline approved by the Bay Area Toll Authority Commission.

**CURRENT APPROVED BUDGET:** the sum of the AB144/SB66 Budget or BATA Budget and Approved Changes.

**COST TO DATE:** the actual expenditures incurred by the program, project, or contract as of the month and year shown.

**COST FORECAST:** the current forecast of all of the costs that are projected to be expended so as to complete the given scope of the program, project, or contract.

**AT COMPLETION VARIANCE or VARIANCE (cost):** the mathematical difference between the Cost Forecast and the Current Approved Budget.

**AB 144/SB 66 PROJECT COMPLETE BASELINE:** the planned completion date for the Toll Bridge Seismic Retrofit Program or subordinate projects or contracts.

**BATA PROJECT COMPLETE BASELINE:** the planned completion date for the Regional Measure 1 Program or subordinate projects or contracts.

**PROJECT COMPLETE CURRENT APPROVED SCHEDULE:** the sum of the AB144/SB66 Project Complete Baseline or BATA Project Complete Baseline and Approved Changes.

**PROJECT COMPLETE SCHEDULE FORECAST:** the current projected date for the completion of the program, project, or contract.

**SCHEDULE VARIANCE or VARIANCE (schedule):** the mathematical difference expressed in months between the Project Complete Schedule Forecast and the Project Complete Current Approved Schedule.

The following information is provided in accordance with California Government code Section 7550:

This document is one of a series of reports prepared for the Bay Area Toll Authority (BATA)/Metropolitan Transportation Commission (MTC) for the Toll Bridge Seismic Retrofit and Regional Measure 1 Programs. The contract value for the monitoring efforts, technical analysis, and field site works that contribute to these reports, as well as the report preparation and production, is \$1,574,873.

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## *Memorandum*

**TO:** Toll Bridge Program Oversight Committee      **DATE:** October 23, 2006  
(TBPOC)

**FR:** Tony Anziano, Toll Bridge Program Manager, Caltrans

**RE:** Agenda No. - 4a  
Quarterly Report  
Item- Draft 3<sup>rd</sup> Quarter 2006 Report Ending September 30, 2006

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**Cost:**

N/A

**Schedule Impacts:**

N/A

**Recommendation:**

For Information Only

**Discussion:**

Attached is the Quarterly Report Production Schedule; Status as of October 16, 2006, reflecting the status of completed report tasks and the schedule for remaining actions.

A Proposed Final Draft of the 3<sup>rd</sup> Quarter Report Ending September 30, 2006 will be e-mailed to the TBPOC by COB Monday, October 23, or as soon as actual cost data through September 30, 2006 are available.

**Attachments:**

Quarterly Report Production Schedule; Status as of October 16, 2006





# TOLL BRIDGE PROGRAM OVERSIGHT COMMITTEE

CALTRANS BAY AREA TOLL AUTHORITY CALIFORNIA TRANSPORTATION COMMISSION

## Quarterly Report Production Schedule; Status as of October 16, 2006

Action	Deadline for Action
<b>3rd Quarter 2006 Report: Legislated Deadline - November 14, 2006</b>	
BAMC Begin Quarterly Report Development; Issue First Call for Input	September 19, 2006A
BAMC Prepare Quarterly Report 1st Draft for PMT, BATA, Caltrans	October, 10, 2006A
PMT / BATA / Caltrans Review & Comment on 1st Draft	October 16, 2006A
BAMC Incorporate Comments: Produce 2nd Draft for TBPOC Review	October 16, 2006A
TBPOC Review & Comment on 2nd Draft	October 20, 2006
Expenditure Update (Anticipated Date)	October 20, 2006
BAMC Incorporate Comments; Produce Proposed Final Draft for TBPOC and Agency	October 23, 2006
BAMC Issue Proposed Final Draft to TBPOC & Agency	October 23, 2006
TBPOC and Agency Review / Comment on Proposed Final Draft	November 1, 2006
BAMC Incorporate Comments: Produce Advanced Final Draft + Table of Conflicting Comments	November 3, 2006
TBPOC Teleconference to make Final Comments and Resolve Conflicting Comments	November 6, 2006
BAMC Incorporate All Final Comments from TBPOC; Emails Final Version for Information	November 8, 2006
Produce & Issue Quarterly Report to Legislature & CTC	November 13, 2006

**NOTE:** "A" following a date indicates the actual completion of the given task.

**TO:** Toll Bridge Program Oversight Committee (TBPOC)      **DATE:** October 23, 2006

**FR:** Tony Anziano, Toll Bridge Program Manager, Caltrans

**RE:** Agenda No. - 4b  
Quarterly Report  
Item- Executive Summary Budget and Forecast Revisions

---

**Recommendation:**

Approval of revisions to forecast and budget in the Third Quarter Toll Bridge Program Oversight Committee report to the California Legislature. Specific revisions and associated adjustments are discussed in detail below.

**Discussion:**

**Budget Revision:** The Assembly Bill 144/Senate Bill 66 Baseline Budget and Current Approved Budget for the seismic retrofit of the Richmond-San Rafael Bridge is \$914 million. The Second Quarter 2006 forecast at completion is \$825 million including the \$16.9 million of deck joint rehabilitation work considered to be eligible for seismic retrofit program funding. Given the current status of the project, with all retrofit work complete and only a few identified potential calls on remaining dollars, a budget adjustment appears appropriate. An estimated project savings of \$89 million can be realized and transferred to the Program Contingency. The specific breakdown of existing project budget dollars transferred to be transferred to the program contingency is discussed in an accompanying memo prepared by BATA. This change, if approved, will be reflected in the upcoming Third Quarter 2006 Toll Bridge Seismic Retrofit Program Report (TBSRPR). If approved, the program budget will have \$1.456 billion in Capital Outlay Support, \$6.24 billion in Capital Outlay, and \$989 million in Program Contingency, for a total program budget of \$8.685 billion.

**Forecast Revision:** Two other changes that are proposed in the Third Quarter 2006 TBSRPR are the forecasts for two of the East Span contracts, Oakland Touchdown (OTD) No. 1 and the South-South Detour (SSD). The forecast of the OTD No.1 contract has been revised to \$226.5 million. This is the estimate included in the Plans, Specifications, and Estimates (PS&E) package delivered to Office Engineer and approved by TBPOC at the September 2006 meeting. The forecast of the South-South Detour contract has been revised to \$152.2 million. The new forecast includes Probable Risk Management cost of \$51.5 million identified in the Third Quarter Risk

Management Report as having “High” and “Very High” Risks of occurring within 12 months time frame, in accordance with TBPOC approved protocol. Due to the changes in both the OTD No.1 and the SSD contracts, the total forecast for the East Span for the Third Quarter 2006 will be \$5.535 billion. The increase in the East Span forecast will result in a reduction in forecast Program Contingency. The total forecast for the Toll Bridge Seismic Retrofit Program for the Third Quarter 2006 will be \$7.745 billion with \$940 million remaining in Program Contingency.

**TO:** Toll Bridge Program Oversight Committee      **DATE:** October 23, 2006  
(TBPOC)

**FR:** Andrew Fremier, BATA Deputy Executive Director

**RE:** Agenda No. - 4b

Item- Quarterly Report  
Executive Summary Budget and Forecast Revisions  
Richmond-San Rafael Bridge Seismic Retrofit Project

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**Cost:** \$89 million in cost savings from the Richmond-San Rafael Bridge Seismic Retrofit Project (RSRB SRP) will be transferred to the Seismic Retrofit Program (SRP) Contingency. The revised total SRP contingency will become \$989 million.

**Schedule Impacts:** None. The project achieved seismic safety on July 29, 2005 and was accepted on October 28, 2005.

**Recommendation:** Staff recommends that the TBPOC adopt a revised budget for the RSRB SRP that transfers \$89 million in cost savings from the project to the SRP Contingency. This change would be reflected in the upcoming Third Quarter Report.

**Discussion:** The RSRB SRP was completed nearly a year ago with a forecast cost of \$825 million, which is \$89 million less than the \$914 million AB 144/SB 60 budget. The TBPOC approved the forecast change last year and now is being asked to formally change the project's budget to reflect the forecast, which has held steady.

A breakdown of the current forecast is tabulated below in Table 1 and takes into account the following:

- A. \$1.5 million in capital outlay support has been set aside to provide construction administration support for the public access project and to provide staff to closeout and prepare as-builts for the RSRB SRP.
- B. The SRP expenditures through September 2006 for capital outlay on the retrofit project include \$16.9 million in costs that were funded from BATA Regional Measure 1 funding. This funding swap was approved by the TBPOC in July 2005 for deck joint rehabilitation work deemed eligible for seismic retrofit program funding. A final accounting of funding is still pending on this swap.

- C. \$4.3 million for capital outlay on the retrofit project has been set aside to close out lagging project costs, including CHP COZEEP costs that have not yet been billed to the Department.
- D. \$3.0 million for the capital outlay costs of the RSRB Public Access Project have been set aside. The project has been advertised and bid opening is expected in November 2006.
- E. \$10.0 million has been set aside to resolve outstanding environmental mitigation costs, primarily from the pile driving activities on the project.

**Table 1 – Breakdown of Forecasted Costs and Savings from the Richmond-San Rafael Bridge Seismic Retrofit Project (\$ in millions)**

	SRP Expenditures Through September 2006	Remaining Forecasted Expenditures	Total Forecast
Capital Outlay Support	\$125.5	\$1.5 <sup>A</sup>	\$127.0
Capital Outlay			
▪ RSRB Retrofit Project	\$680.7 <sup>B</sup>	\$4.3 <sup>C</sup>	\$685.0
▪ RSRB Public Access Project	0	\$3.0 <sup>D</sup>	\$3.0
▪ Environmental Mitigation	0	\$10.0 <sup>E</sup>	\$10.0
Subtotal Capital Outlay			<u>\$698.0</u>
Revised Project Budget			\$825.0
Current AB 144/SB 60 Budget			<u>\$914.0</u>
Project Savings to be Transferred to SRP Contingency			\$89.0

Should the TBPOC adopt the proposed budget change, BATA will take a follow-up action to rescind any excess allocation to match the revised TBPOC approved budget. Furthermore, upon completion of the RSRB Public Access Project and final resolution of the environmental mitigation issues, staff will request the TBPOC to take further action to transfer any additional project savings to the SRP contingency.

## *Memorandum*

**TO:** Toll Bridge Program Oversight Committee      **DATE:** October 23, 2006  
(TBPOC)

**FR:** Tony Anziano, Toll Bridge Program Manager, Caltrans

**RE:** Agenda No. - 5a  
Oakland Touchdown (OTD)  
Item- Submarine Cable Contract

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**Cost:**

N/A

**Schedule Impacts:**

N/A

**Recommendation:**

For Information Only

**Discussion:**

The Department will provide a verbal update on the Submarine Cable Contract.

**Attachment(s):**

N/A



## **Item 6: Other Business**

**No Attachments**